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**CLAYTON CHEMICAL  
SAUGET, SAINT CLAIR COUNTY, ILLINOIS  
SITE ASSESSMENT REPORT**

September 2001

**Prepared For:**

**U.S. Environmental Protection Agency  
Emergency and Remedial Response Branch  
Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604**

**FINAL DRAFT  
CLAYTON CHEMICAL SITE  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
REMOVAL ASSESSMENT REPORT**

**START TDD NO. S05-0105-009**

**REVISION 0 - September 6, 2001**

**Prepared For:**

**U.S. EPA START Contract No.68 -W-00-119  
U.S. Environmental Protection Agency  
77 West Jackson Boulevard  
Chicago, Illinois 60604**

**Revision O - September 6, 2001 -Document Control No. 108-2A-AARD**

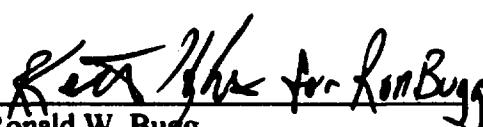
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**Date: 9/7/01**

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## SECTION 1

### INTRODUCTION

The United States Environmental Protection Agency (U.S. EPA) tasked the Roy F. Weston, Inc. (WESTON<sub>®</sub>) and Project Resources, Inc. (PRI), Superfund Technical Assessment and Response Team (START) under Technical Direction Document (TDD) S05-0105-009 to perform a Removal Site Evaluation, including sampling, air monitoring, hazardous waste categorization (HAZCAT) of drums, tanks, and small containers, surveying, documenting site activities, and reviewing analytical data at the Clayton Chemical (CC) site, located in Sauget, St. Clair County, Illinois. Additionally, START was tasked to coordinate sample management activities for soil and ground water samples to be analyzed by Environmentics, Incorporated, Laboratory in St. Louis, Missouri. The analytical activities were conducted under TDD S05-0105-013. All on-site surface soil, geoprobe subsurface soil, and groundwater sampling, along with the HAZCAT activities were conducted under the authority of the U.S. EPA On-Scene Coordinator (OSC) Kevin Turner on 5 through 7 June 2001.

The objective of this removal site evaluation was to gather site-specific information from CC, also known as Resource Recovery Group (RRG), to verify and expand upon existing information and to support development of removal action alternatives, if warranted. Specific objectives of the site assessment are as follows:

- Develop a health and safety plan.
- Determine the nature and extent of contamination in the soil and groundwater.
- Verify inventory list provided by RRG by sampling tanks, drums, and other containers for chemical contents and determine the amount of material in containers.

To accomplish these objectives, the site assessment activities consisted of collecting soil and groundwater samples from Clayton Chemical property, analyzing the samples for organic and

inorganic parameters, and safely taking inventory of materials that were stored on site.

This site assessment report is organized into the following sections:

- Introduction -- The introduction provides a brief description of the objective and scope of the site assessment activities.
- Site Background -- The site background provides the site description and site history.
- Environmental Investigation Activities -- The environmental investigation activities section describes the methods and procedures used during the site assessment activities.
- Environmental Investigation Results -- The environmental investigation results section recaps the results of sample analysis.
- Discussion of Potential Threats -- The conditions present at the CC site that warrant an appropriate removal action.
- Conclusions and Recommendations -- The conclusions and recommendations summarize the findings of the site assessment activities and provides recommendations for further activities.

## SECTION 2

### SITE BACKGROUND

Background information contained in the Removal Assessment Report was based on information presented in Environmental Site Assessment, prepared by Illinois Environmental Protection Agency (IEPA). The information presented in the report has not been verified by START.

#### **2.1 SITE DESCRIPTION**

The CC site is located at on 1 Mobile Avenue, Saugeet, St. Clair County, Illinois (latitude 38°35'72.4"N and longitude 90°11'02.2"W), approximately one-quarter mile from the Mississippi River (Appendix A, Figure 1). The area lies in the flood plain of the Mississippi River in an area known as the "American Bottoms" flood plain. The site consists of 7 acres of land and is located in an area of intense commercial land use. The area is protected by the U.S. Army Corps of Engineers river levee.

#### **2.2 SITE HISTORY**

Prior to 1961, the property was owned by GM&O Railroad who utilized the property as a roadhouse. In 1961, CC leased the property from GM&O Railroad and began the process of recovering and recycling spent solvents and waste oil. The CC site had leased out portions of the property to other companies for storage units.

The reclaimed spent solvents and oils CC handled were stored in above ground storage tanks (ASTs) and drums at a warehouse and at the loading-dock storage area. CC stockpiled three different types of wastes material: nonhazardous waste oil, hazardous waste oil, and hazardous waste solvents. The known hazardous waste material treated at the facility included, but was not limited to, the following

EPA codes: D001, D007, D008, F002, F003, F005, and F006. The spent solvents went through a distillation process and the recycled, clean solvents were sold to industries. Residual bottom sludge from the distillation process was mixed with chemicals and sold for use in the pavement industry. The site also was known to function as a bulk-oil storage and handling facility.

## SECTION 3

### ENVIRONMENTAL INVESTIGATION ACTIVITIES

This section presents the activities conducted and procedures used by START to complete the soil sampling, groundwater sampling, and hazardous categorization of selected drums on site. START conducted sampling activities in accordance with a Site Specific Sampling Plan for the CC Site, which was prepared by WESTON for U.S. EPA. Procedures used for soil and groundwater sampling, equipment decontamination, quality assurance, and sample collection and handling are described below.

START conducted site activities on 5, 6, and 7 June 2001. START members Keith Hughes, Shannon Moore, Stephanie Parfitt, and Todd Carmichael met with on-scene coordinators Kevin Turner, Mike Harris, and Thomas Cook along with IEPA representatives and conducted a general reconnaissance of the site to identify proposed sampling locations. An IEPA geoprobe was present to assist in collecting subsurface soil boring samples.

#### **3.1 SAMPLING ACTIVITIES**

The on-site personnel, which included OSCs, START members, and IEPA representatives, were divided into three separate teams: the drum team, the geoprobe team, and the backhoe team. The geoprobe sample locations are shown in Appendix A, Figure 2-1. The descriptions of locale and sample locations are located within the comments in Table 4-14, located in Appendix B. The geoprobe teams sampled groundwater and subsurface soils. The geoprobe team's groundwater samples were collected throughout the property at depths of 8 to 16 feet below ground surface. In addition, the geoprobe team sampled subsurface soils in areas where the backhoe team could not reach or areas where the backhoe would cause excessive damage.

The backhoe test pit locations are shown in Figure 2-2, located in Appendix A. The descriptions of

the locale and sample locations are within the comments in Table 4-13, located in Appendix B. The backhoe team concentrated primarily on the back areas of the property away from the process tank areas. The backhoe dug pits generally up to eight feet in depth. The soil samples were taken from surface to twelve feet in depth.

The soil samples were analyzed for Resource Conservation Recovery Act (RCRA) metals, polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), pH, ignitability, semivolatile organic compounds (SVOCs), and volatile organic compounds (VOCs). The groundwater samples were analyzed for RCRA metals, PCBs, pH, total cyanide, and VOCs.

The drum team verified drum and tank inventory lists provided by RRG. A weekly tank inventory report dated 6 June 2001 and drum list can be found in Appendix D. The drum team opened and sampled drums, counted various sized and shaped tanks, and miscellaneous, small containers throughout the property. The samples collected from the drum team were hazcatted on site.

### 3.1.1 SOIL COLLECTION FOR CHEMICAL ANALYSIS

There were twenty-two soil samples taken from the backhoe and geoprobe teams. The backhoe team was directed by OSC Kevin Turner. START member Keith Hughes, the geoprobe team directed by OSC Mike Harris, and START member Shannon Moore provided work support along with the IEPA representatives. The soil samples were collected throughout the site at depths to 12 feet below ground surface. The majority of the topsoil at CC was black cinders, usually 3 inches deep. The soil possessed an assortment of chemicals and odors, which had emerged from the ground when soil samplings and soil borings were collected. In some areas, the soil had an oily appearance, contained paint, or contained some unknown, white, flaky materials. The soil samples were analyzed for RCRA metals, PCBs, TPH, pH, ignitability, SVOCs, and VOCs. The soil samples were placed into appropriate laboratory containers, labels were completed and affixed, the containers were placed on ice, and a chain-of-custody forum was completed. Sets of clean, dedicated equipment were used at each sample location. Sterile gloves were donned before the first sample was collected and changed

between each additional sample.

### 3.1.2 GROUNDWATER COLLECTION FOR CHEMICAL ANALYSIS

The geoprobe team collected ten groundwater samples throughout the site using the geoprobe at depths of 8 to 16 feet below ground surface (Appendix A, Figure 2-1). Some sampling locations had odors of petroleum, and the soil had an oily appearance. The groundwater samples were analyzed for RCRA metals, PCBs, pH, total cyanide, and VOCs. The groundwater samples were placed into laboratory containers, labels were completed and affixed, the containers were placed on ice, and a chain-of-custody forum was completed. Sets of clean, dedicated equipment were used at each sample location. Sterile gloves were donned before the first sample was collected and changed between each additional sample.

### 3.1.3 HAZARD CATEGORIZATION OF DRUMS/TANKS/CONTAINERS ON SITE

U.S. EPA OSC Thomas Cook lead the drum team. START members Stephanie Parfitt and Todd Carmichael provided work support. The drum team verified drums, containers, and the inventory lists provided by RRG. The drum team opened and sampled drums in level B personal-protective equipment (PPE). The team also counted the various sized and shaped tanks and miscellaneous, small containers throughout the CC property. The drum samples for hazardous characterization were collected with dedicated glass-drum thieves and placed in a dedicated sample jar. Sterile gloves were donned before the first samples were collected and changed in between each additional sample. Drum team inventory summaries are found in Tables 4-9 thru 4-12.

### 3.1.4 SAMPLE HANDLING

Sample identification, documentation, and chain-of-custody were conducted in accordance with applicable Contract Laboratory Program(CLP) sample handling protocol. The proper chain-of-custody was maintained during collection, storage, and transportation of samples. The samples were

hand delivered to Envirometric Inc., Laboratory so that holding times would not be exceeded. The samples were placed in ice but exceeded the temperature requirement of 4°C when they arrived at the laboratory.

### 3.1.5 DECONTAMINATION PROCEDURES

Throughout the sampling process the dedicated equipment used was disposed of, and the nondedicated sampling instruments were decontaminated between sampling.

## SECTION 4

### ANALYTICAL RESULTS

During the investigation, soil samples, soil borings, and groundwater were collected. The analytical samples were submitted to Environmentics, Inc., Laboratories of St. Louis, Missouri under TDD S05-0105-013. Analytical results for this sampling event are presented in Appendix E and summarized in Table 4-1 through 4-14 of Appendix B.

Sample results that exceeded the Preliminary Remediation Goals (PRGs) are highlighted in the tables. The darker highlight represents an exceedance of an industrial PRG. The lighter highlight represents an exceedance of a residential PRG.

There were 11 soil and 11 soil-boring samples collected along with ten ground water samples. The soil samples were analyzed for RCRA total metals, VOCs, SVOCs, PCBs, pH, and ignitability. The soil boring samples were analyzed for the same parameters as the surface soil and also included TPH and cyanide. The groundwater samples were analyzed for RCRA metals, VOCs, and cyanide.

#### 4.1 RCRA METALS

Analytical results for soil samples indicated the presence of metals at levels greater than the Preliminary Remediation Goals (PRGs) in soil for lead, cadmium, chromium and arsenic. The lead-level results were as follows: 14,368 milligrams per kilogram (mg/kg) in sample SS-013-01; 2,451 mg/kg (SS-013-04); 2,665 mg/kg (SS-013-05); 2,576 mg/kg (SS-013-06); and 6,607 mg/kg (SS-013-07). Cadmium was present in SS-013-01 at 42.3 mg/kg, thus exceeding the residential standard. Total chromium (3,292 mg/kg) was present in sample SS-013-01, in SS-013-04 (446 mg/kg exceeding only the residential standard); in SS-013-05 (459 mg/kg); in SS-013-07 (1381 mg/kg) and in SS-013-08 (462 mg/kg). Arsenic was detected in several soil samples ranging in levels from 4.37 mg/kg to 34.9 mg/kg.

#### **4.2 VOLATILE ORGANIC COMPOUNDS**

The sample results indicated the presence of VOCs in the soil samples at levels above the PRGs. Methylene Chloride levels above the industrial PRG were found in 8 samples. Methylene Chloride is a common laboratory compounds, thus is often found in analytical results. Since field nor trip samples were collected, the presence or absence of these compounds can not be determined at this time.

Toluene and tetrachloroethene were found above the PRGs in 7 samples. 1,1,2-Tetrachloroethane was found in 1 sample. Chlorobenzene was found in 2 samples. Ethylbenzene was found in 3 samples. Xylene was found in 5 samples. 1,2,4-Trimethylebenzene was found in 4 samples.

For the groundwater, Maximum Contaminant Limits (MCLs) were used to compare the analytical data collected at the Clayton Chemical site. Based on this, MCLs were exceeded in GW-013-01 through -07 for from 2 to 8 VOCs including:

- Vinyl Chloride
- 1,1-Dichlorethane
- 1,1-Dichlorehene
- cis-1,2-Dichlorehene
- 1,1,1-Trichloroethane
- 1,2-Dichloroethane
- Benzene
- Trichlorehene
- Toluene
- Tetrachlorothene
- Xylene

#### **4.3 SEMIVOLATILE ORGANIC COMPOUNDS**

Analytical results for soil samples indicated the presence of semivolatile compounds in soil above the PRGs for some samples. 1,4- Dichlorobenzene results were as follows: 14 mg/kg in samples SB-013-02; 560 mg/kg samples for S05-013-03; 2100 mg/kg for sample S5-013-04; 4-3 mg/kg for sample S5-013-05, exceeding the residential standard; 2.4 mg/kg for sample S5-013-06, exceeding the residential standard; and 18 mg/kg for samples S5-013-08. 1,2-Dichlorobenzene was found in SB-013-03 at 370 mg/kg and in SS-013-04 at 1600 mg/kg. Lastly, bis (2-ethylhexyl) phthalate was found in all samples. This data is often disregarding since this compound in a typical laboratory chemical. It can not be verified in this case because neither trip nor field samples were submitted for analysis.

#### **4.4 POLYCHLORINATED BIPHENYLS**

The sample results for soil samples indicated the presence of PCBs at levels above the PRGs for samples SS-013-01, 5.3 mg/kg (arochlor 1260); SS-013-04 899 mg/kg (arochlor 1016) and 232 mg/kg (arochlor 1260); SS-013-07, 79.6 mg/kg (arochlor 1232) and 44.7 mg/kg (arochlor 1260); SS-013-08, 40.3 mg/kg (arochlor 1016) and 33.4 mg/kg (arochlor 1260); SB-013-01, 1.0 mg/kg (arochlor 1260); SB-013-03, 75.4 mg/kg (arochlor 1016) and 220 mg/kg (arochlor 1260); SB-013-04, 1.9 mg/kg (arochlor 1260); SB-013-08, 1.71 mg/kg (arochlor 1260). Seven additional samples exceeded the residential PRGs for one or more Arochlors.

#### **4.5 IGNITABILITY**

All soil and boring samples were analyzed for ignitability using the close cup method SW-846-1020. The samples, SS-013-04, -07, -08 and -11 had ignitability of 140° Fahrenheit (F) or less which is considered a hazardous substance by U.S. EPA. The remaining samples had \ignitabilities of greater than 200°F.

## SECTION 5

### THREATS TO HUMAN HEALTH AND THE ENVIRONMENT

Conditions present at the Clayton Chemical site that warrant an appropriate removal action as set forth in paragraph (b) (2) of Section 300.415 of the National Oil and Hazardous Substances Contingency Plan (NCP) include the following:

- **Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants.**

Analytical results indicate that surface soil at the CC site had been impacted by elevated concentrations of various RCRA metals, including lead, chromium, and arsenic. The concentration of is over 6 times greater than the U.S. EPA Preliminary Remediation Goal (PRG) for residential soil of 400 mg/kg in 15 of the 22 samples and may have been present in up to six more (which were reported as "<3.00mg/kg"). The concentration of arsenic also exceeds the PRG levels of 0.4 mg/Kg for several samples. It should be noted that Arsenic is a naturally occurring chemical.

PCBs encountered exceeds the PRG for industrial or residential soil for 15 samples. This contamination may easily come into contact with the population and may migrate via surface-water runoff or become airborne. Although an extensive geological study of the site has not been reviewed or completed, area soil appears to be of a porous, sandy nature, which would facilitate contaminant migration to groundwater and drinking water.

- **High levels of hazardous substances or pollutants or contaminants in soil largely at or near the surface that may migrate.**

Analytical results indicated that surface soil at the Clayton Chemical site has been impacted by elevated concentrations of various RCRA metals, PCBs, and ignitable compounds. The contamination exists on the ground surface where it may easily migrate via surface water runoff or become airborne. Although an extensive geological study of the site has not been reviewed or completed, area soils appear to be of a porous, sandy nature, which would facility contaminant migration to groundwater and drinking water.

- **Weather conditions that may cause hazardous substances or pollutants or contaminates to migrate or be released.**

Heavy rains/flooding may cause migration of compounds. Severe winds may also cause contaminated surface-soil particulate to be present in the air, and may cause inhalation

and ingestion hazards to the public.

- **Threat of fire or explosion.**

There is a potential for fire or explosion due to the low ignitability temperatures for SS-013-04, SS-013-07, SS-013-08, and SS-013-11, which had ignitability levels lower than the 140°F. U.S. EPA considers material hazardous if the material ignitability is below 140°F.

## SECTION 6

### CONCLUSIONS AND RECOMMENDATIONS

#### **6.1 CONCLUSION**

The Clayton Chemical Site is an inactive chemical facility. The site occupies approximately 7 acres located in a highly industrialized area in Sauget, Illinois. The U.S. EPA conducted a site removal assessment of the property on 5, 6, and 7 June, 2001. Throughout the facility, stained soil was encountered during the assessment. Twenty-two investigative surface soil and soil borings, and 10 groundwater samples were collected and analyzed for a variety of appropriate potential contaminants.

The sample results indicated elevated levels of contaminants were encountered throughout the site. The soil possessed an assortment of chemicals and odors, which had emerged from the ground when soil samples were collected. In some areas, the soil had an oily appearance, contained paint, or contained an unknown, white, flaky material. Soil samples were collected from 1 to 12 feet below ground surface. The groundwater samples were collected from a depth of 8 to 16 feet below ground surface.

The soil and groundwater sample analytical results exhibit a correlation to the materials handled at CC. Sample results indicated of spent solvents, ignitable waste, lead, chromium, arsenic, and PCBs. Based on the site assessment and analytical results, contaminated soil at the CC site pose an immediate threat to human health and the environment.

#### **6.2 RECOMMENDATIONS**

Based on the conclusions of the site removal assessment and the analytical results from the surface soil, soil boring, and the groundwater results, START recommends that a removal action take place

as outlined in Section 5.

The preferred removal action to mitigate threats associated with the site is off-site treatment and disposal of hazardous solid waste and disposal of nonhazardous solid wastes at a landfill. The removal action described in this report directly addresses actual or threatened releases of hazardous substances, pollutants, or contaminants at the facility that may pose an imminent and substantial danger to public health and to the environment.

START has developed a removal action option that includes the excavation and disposal of all contaminated soil. This includes conducting hazardous characterization testing of all the drums and small containers on site to determine their wastestream for proper disposal; preparing composite samples and submitting the samples for disposal bids; transporting waste off site to disposal facilities; backfilling of all excavations with clean material.

The following assumptions were made when scoping the cleanup effort:

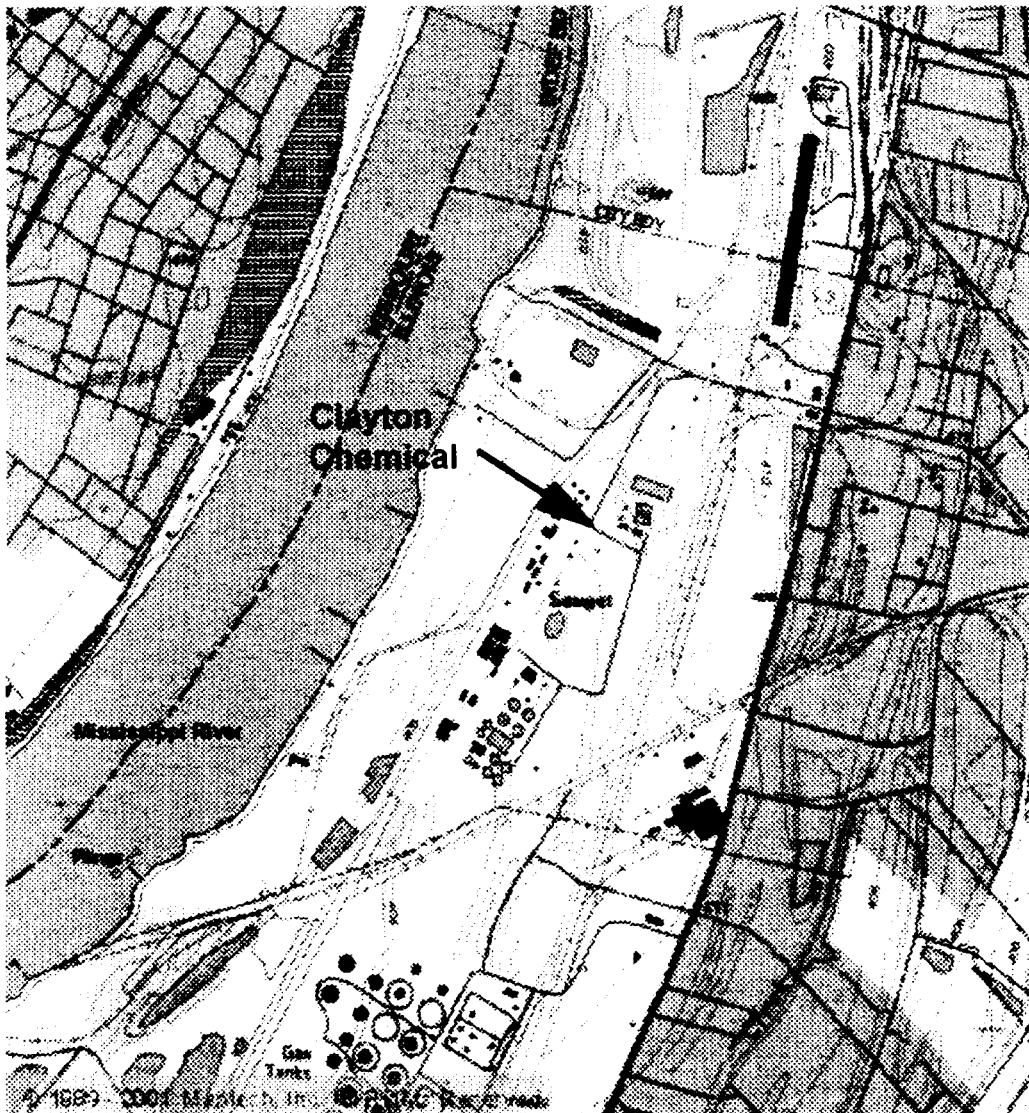
- The removal action will be conducted over a period of 45 days at 10 hours per day.
- Cleanup contractor costs use the rates of the Emergency and Rapid Response Services (ERRS) contractor Region 5.
- ERRS contractor personnel will consist of one response manager, one foreman, one field cost analyst, four cleanup technicians, and two equipment operators. START personnel will include one person.
- One U.S. EPA OSC will be on site at all times.
- Waste materials and contaminated soils will be classified into proper wastestreams for disposal.
- Soil volumes were estimated using the area to be excavated as approximately 60,000 square feet. The areas to be excavated were determined using the information collected during the site removal assessment. For PCB contaminated soil, the Toxic Substances Control Act (TSCA) waste over 50 mg/kg will be transported to Wayne Disposal facility in Belleville, Michigan for treatment and disposal at a cost of \$165

per ton. Non-TSCA waste (less than 50 mg/kg PCBs) will be transported to Waste Management.

- The equipment needed for the removal action.
- The drums staging and overpacking will be on site. Included in this will be the removal of all liquids from the ASTs.

**APPENDIX A**

**A1**



R. F. Weston

Region 5 - Superfund Technical Assessment and Response Team

Suite 400 - 3 Hawthorn, Vernon Hills, IL 60061-1450

FIGURE

1

SCALE

Not to scale

TITLE  
Site Location

SITE

Clayton Chemical Site Assessment

CITY

Saugatuck

STATE

Illinois

TDU

S05-0105-009

SOURCE

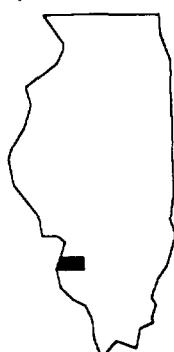
Maptech Inc.

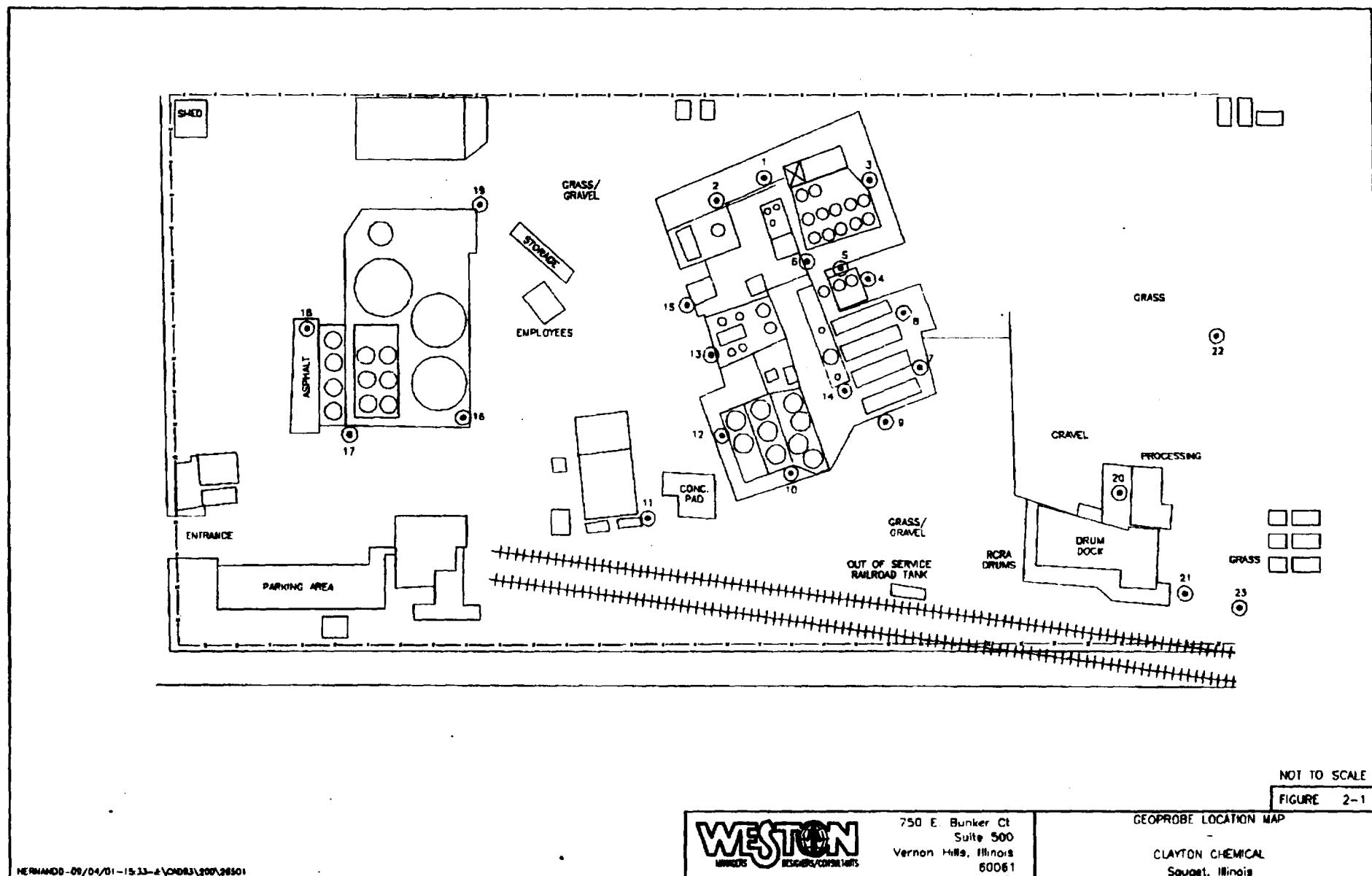
DATE

September 5, 2001

REVISED

NA





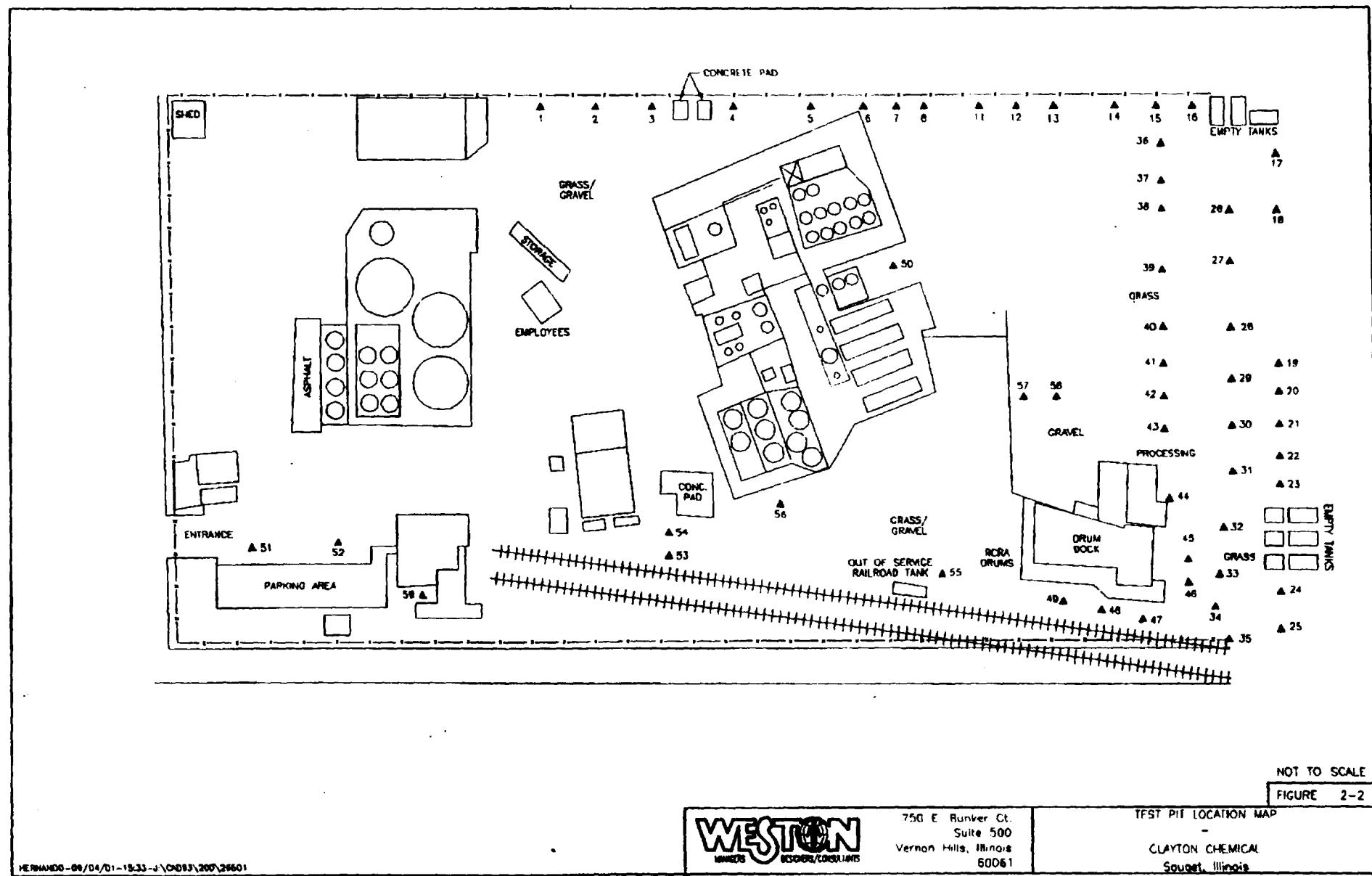
NOT TO SCALE

FIGURE 2-1



750 E. Bunker Ct  
Suite 500  
Vernon Hills, Illinois  
60061

GEOPROBE LOCATION MAP  
CLAYTON CHEMICAL  
Saugat, Illinois



## **APPENDIX B**

**B1**

Table 4-1

**SOIL BACKHOE SAMPLES**  
**RCRA METALS /PCBs/TPH/pH/ IGNITABILITY ANALYTICAL RESULTS**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5 through JUNE 7, 2001**

Parameter	Sample Designation										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
<b>RCRA Metals (mg/Kg)</b>											
Arsenic	6.59B	4.74B	7.00B	7.54B	5.58B	24.4B	5.94B	1.37B	<3.00	<3.00	<3.00
Barium	1215	136	84.2	485	1621	147	509	304	137	110	204
Cadmium	1.62B	1.62B	1.71B	25.0	2.53B	4.70	31.6	27.1	1.38B	<0.400	<0.400
Chromium	3.99	36.3	9.54	4.46	4.59	60.3	1.391	4.62	73.5	5.64B	10.2
Lead	14.96B	134	70.2	2.481	2.263	3.576	6.607	2.383	399	19.5B	15.2B
Mercury	3.80	0.500	0.200	1.20	1.40	0.300	0.800	2.40	0.300	0.400	0.300
Selenium	6.21B	<4.70	<4.70	<4.70	<4.70	<4.70	8.58B	<4.70	<4.70	<4.70	<4.70
Silver	<0.600	<0.600	<0.600	<0.600	<0.600	0.739B	<0.600	<0.600	<0.600	<0.600	<0.600
<b>PCBs (mg/Kg)</b>											
Aroclor 1016	U		U	0.001	U	U	U	0.03	3.8	-	2.6
Aroclor 1221	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232	U	U	0.0461J	U	U	U	79.4	U	U	U	U
Aroclor 1242	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260	52		0.136	17			447	134			

Table 4-1 (Continued)

**SOIL BACKHOE SAMPLES**  
**RCRA METALS /PCBs/TPH/pH/ IGNITABILITY ANALYTICAL RESULTS**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5 through JUNE 7, 2001**

Parameter	Sample Designation										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
pH	7.7	6.1	7.5	5.4	7.0	7.3	7.2	7.2	7.4	6.2	7.8
TPH (mg/Kg)	NA	NA	NA	NA	NA	NA	NA	16,600	4,570	29,700	15,300
Ignitability	>200 °F	>200 °F	>200 °F	130 °F	>200 °F	>200 °F	130 °F	130 °F	>200 °F	>200 °F	130 °F

Key:

- mg/Kg = Milligrams per Kilograms
- U = Undetected
- NA = Not Analyzed
- J = Detected, but below practical quantification
- B = Reported value is greater than the method detection limit but less than the practical quantitation limit
- PCB's = Polychlorinated Biphenyls
- °F = Degrees Fahrenheit

Source: Envirometrics, Inc. 11401 Moog Drive, St. Louis, MO 63146. Analysis provided through R. F. Weston. Analytical TDD S05-0105-013

Table 4-2

**SOIL BORING SAMPLES**  
**RCRA METALS /PCBs/TPH/pH/IGNITABILITY ANALYTICAL RESULTS**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5 through JUNE 7, 2001**

Parameter	Sample Designation										
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-10	SB-013-11
<b>RCRA Metals (mg/Kg)</b>											
Arsenic	5.17B	4.37B	34.9	3.97B	5.02B	<3.00	<3.00	4.54B	<3.00	NA	24.4B
Barium	67.5B	70.8	124	49.8	92.9	21.9	60.9	156	65.2	NA	254
Cadmium	<0.400	<0.400	<0.400	3.78B	<0.400	<0.400	<0.400	<0.400	<0.400	NA	2.14B
Chromium	4.20B	5.64B	80.4	13.7	4.96B	3.57B	4.08B	10.6	3.71B	NA	62.7
Lead	7.86B	8.70B	421	108	18.0	65.1	6.40B	32.7B	4.90B	NA	353
Mercury	0.100	<0.100	1.30	0.100	0.100	0.100	<0.100	0.300	0.200	NA	0.600
Selenium	<4.70	<4.70	<1.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	NA	<4.70
Silver	<0.600	<0.600	<0.600	<0.600	<0.600	<0.600	<0.600	<0.600	<0.600	NA	<0.600
<b>PCBs (mg/Kg)</b>											
Aroclor 1016	0.8J	U	154	U	0.402	U	U	0.043	U	U	0.2
Aroclor 1221	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260	1.0	U	229	U	0.183J	0.1	U	U	U	U	U

Table 4-2 (continued)

SOIL BORING SAMPLES  
RCRA METALS/PCBs/TPH/pH/ IGNITABILITY ANALYTICAL RESULTS  
CLAYTON CHEMICAL SITE ANALYSIS  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5 through JUNE 7, 2001

Parameter	Sample Designation										
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-10	SB-013-11
pH	7.1	7.1	7.4	7.5	8.0	7.1	7.6	6.8	7.7	NA	7.7
TPH (mg/Kg)	46.6	<5	54,900	NA	362	NA	7.85	10,200	81.6	<5	23.4
Ignitability	>200 °F	>200 °F	>200 °F	>200 °F	>200 °F	>200 °F	>200 °F	>200 °F	>200 °F	NA	>200 °F

Key: mg Kg = Milligrams per Kilograms

U = Undetected

NA = Not Analyzed

J = Detected, but below practical quantitation

B = Reported value is greater than the method detection limit but less than the practical quantitation limit

PCB's = Polychlorinated Biphenyls

°F = Degrees Fahrenheit

Source: Envirometrics, Inc. 11401 Moog Drive, St. Louis, MO 63146. Analysis provided through R. F. Weston. Analytical TDD S05-0105-013

Table 4-3

**GROUNDWATER SAMPLES  
RCRA METALS/TOTAL CYANIDE/ pH / PCBs ANALYTICAL RESULTS  
CLAYTON CHEMICAL SITE ANALYSIS  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5 through JUNE 7, 2001**

Parameter	Sample Designation									
	GW-013-01	GW-013-02	GW-013-03	GW-013-04	GW-013-05	GW-013-06	GW-013-07	GW-013-08	GW-013-09	GW-013-10
RCRA Metals (mg/L)										
Arsenic	<0.030	<0.030	<0.030	0.425B	NA	NA	NA	<0.030	0.131B	<0.030
Barium	<0.278	0.073	0.209	0.392	NA	NA	NA	0.347	0.194	0.196
Cadmium	<0.400	<0.400	<0.400	<0.400	NA	NA	NA	<0.400	<0.400	<0.400
Chromium	<0.005	<0.005	0.013B	<0.005	NA	NA	NA	0.008	<0.005	0.012
Lead	<0.044	<0.044	0.068B	<0.044	NA	NA	NA	<0.044	<0.044	<0.044
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	NA	NA	NA	<0.0002	<0.0002	<0.0002
Selenium	<0.047	0.200B	<0.047	<0.047	NA	NA	NA	0.083	<0.047	<0.047
Silver	<0.006	<0.006	<0.006	<0.006	NA	NA	NA	<0.006	<0.006	<0.006
Cyanide, Total(mg/L)	<0.006	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA
pH	NA	NA	NA	NA	NA	NA	6.760	7.040	6.990	NA
PCBs (mg/L)										
Aroclor 1016	NA	NA	NA	NA	U	U	U	U	U	U
Aroclor 1221	NA	NA	NA	NA	U	U	U	U	U	U
Aroclor 1232	NA	NA	NA	NA	U	U	U	U	U	U
Aroclor 1242	NA	NA	NA	NA	U	U	U	U	U	U
Aroclor 1248	NA	NA	NA	NA	U	U	U	U	U	U
Aroclor 1254	NA	NA	NA	NA	U	U	U	U	U	U

Table 4-3 (Continued)

**GROUNDWATER SAMPLES**  
**RCRA METALS/TOTAL CYANIDE/ pH/PCBs/ ANALYTICAL RESULTS**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5 through JUNE 7, 2001**

Parameter	Sample Designation									
	GW-013-01	GW-013-02	GW-013-03	GW-013-04	GW-013-05	GW-013-06	GW-013-07	GW-013-08	GW-013-09	GW-013-10
PCB's (mg/L)										
Aroclor 1260	NA	NA	NA	NA	NA	U	U	U	U	U

Key: mg/L = Milligrams per Liter

U = Undetected

NA = Not Analyzed

B = Reported value is greater than the method detection limit but less than the practical quantitation limit

PCB's = Polychlorinated Biphenyls

Source: Envirometrics, Inc. 11401 Moog Drive, St. Louis, MO 63146. Analysis provided through R. F. Weston. Analytical TDD S05-0105-013

Table 4-4

**SOIL BACKHOE SAMPLES**  
**SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/l.)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
Pyridine	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodimethylamine	U	U	U	U	U	U	U	U	U	U	U
Aniline	U	U	U	U	U	U	U	U	U	U	U
Bis(2-chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	U
Phenol	U	2.6	U	78	U	U	U	U	U	U	U
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	U	14	U		42	24	U		U	U	U
1,2-Dichlorobenzene	U	12	U		3	1.4	U	U	U	U	U
Benzyl alcohol	U	U	U	U	U	U	U	U	U	U	U
2,2-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	3.3
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	U
N-Nitrosodi-n-propylamine	U	U	U	U	U	U	U	U	U	U	U
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	U

Table 4-4 (Continued)

**SOIL BACKHOE SAMPLES**  
**SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/l.)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
Isophorone	2.6	U	U	U	U	U	U	U	U	U	4.1
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	U	U	U	50	U	U	U	U	U	U	U
Naphthalene	U	22	U	610	2	0.6	430	20	8.2	20	36
Benzoic acid	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	1.9
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	U	5.9	U	140	U	0.8	92	14	39	61	76
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	U
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U

Table 4-4 (Continued)

**SOIL BACKHOE SAMPLES**  
**SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/l.)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	U
Dimethyl phthalate	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	U	U	U	41	U	U	U	U	U	32	U
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	U	U	U	U	U	U	U	U	U	U	3.1
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U
Fluorene	U	U	U	96	U	U	U	38	19	27	U
4-Chlorophenyl phenyl ether	U	U	U	U	U	U	U	U	U	U	U
Diethyl phthalate	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	U
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	U
Azobenzen (1,2-Diphenolhydrazine)	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	U

Parameter	Sample Designation										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
Atrazine	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	U	1.2	U	230	U	1.3	U	95	6.6	11	11
Anthracene	U	U	U	U	U	U	U	U	U	U	U
Carbazole	U	U	U	U	U	U	U	U	U	U	U
Alachlor	U	U	U	U	U	U	U	U	U	U	U
Di-n-butyl-phthalate	3.6	12	U	220	2.7	U	190	290	U	U	U
Fluoranthene	U	U	U	24	U	0.7	U	12	U	U	U
Benzidine	U	U	U	U	U	U	U	U	U	U	U
Pyrene	U	U	U	82	U	0.8	U	40	U	4.2	1.5
Butyl benzyl phthalate	1.5	U	U	19	U	U	30	U	U	U	U
Benz(a)anthracene	U	U	U	U	U	U	U	U	U	U	U
Chrysene	U	U	U	32	U	U	U	17	U	U	U
3,3'-Dichlorobenzidine	U	U	U	U	U	0.6	U	U	U	U	U
Bis(2-ethylhexyl)phthalate											32
Di-n-octyl phthalate	7.7	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	U	U	U	U	U	U	U	U	U	U	U

Table 4-4 (Continued)

**SOIL BACKHOE SAMPLES**  
**SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/l.)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
Benzo(a)pyrene	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	U	U	U	U
Dibenz(a,h)anthracene	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	U	U	U	U

Key: mg/L = Milligrams per Liter

U = Undetected

Source: Envirometrics, Inc. 11401 Moog Drive, St. Louis, MO 63146. Analysis provided through R. F. Weston. Analytical TDD S05-0105-013

Table 4-5

**SOIL BORING SAMPLES  
SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)  
CLAYTON CHEMICAL SITE ANALYSIS  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation										
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-10	SB-013-11
Pyridine	U	U	U	U	U	U	U	U	U	NA	U
n-Nitrosodimethylamine	U	U	U	U	U	U	U	U	U	NA	U
Aniline	U	U	U	U	U	U	U	U	U	NA	U
Bis(2-chloroethyl)ether	U	U	U	U	U	U	U	U	U	NA	U
2-Chlorophenol	U	U	U	U	U	U	U	U	U	NA	U
Phenol	U	U	U	U	U	U	0.5	U	U	NA	U
1,3-Dichlorobenzene	U	U	11	U	U	U	U	U	U	NA	U
1,4-Dichlorobenzene	1.4	U		U	U	0.8	1.5	U	U	NA	U
1,2-Dichlorobenzene	1.5	U		U	0.5	0.5	2.3	U	U	NA	U
Benzyl alcohol	U	U	U	U	U	U	U	U	U	NA	U
2,2-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	NA	U
2-Methylphenol	U	U	U	U	U	U	U	U	U	NA	U
Hexachloroethane	U	U	U	U	U	U	U	U	U	NA	U
N-Nitrosodi-n-propylamine	U	U	U	U	U	U	U	U	U	NA	U
4-Methylphenol	0.7	U	11	U	U	U	U	U	U	NA	U
Nitrobenzene	U	U	U	U	U	U	U	U	U	NA	U

Table 4-5 (Continued)

**SOIL BORING SAMPLES**  
**SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation										
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-10	SB-013-11
Isophorone	U	U	10	U	U	U	U	U	U	NA	U
2-Nitrophenol	U	U	U	U	U	U	U	U	U	NA	U
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	NA	U
Bis(2-chloroethoxy)methane	U	U	U	U	U	U	U	U	U	NA	U
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	NA	U
1,2,4-Trichlorobenzene	3.1	U	17	U	U	U	5.3	U	U	NA	U
Naphthalene	3.6	1.4	100	U	4.6	U	U	20	U	NA	U
Benzoic acid	U	U	U	U	U	U	U	U	U	NA	U
4-Chloroaniline	U	U	U	U	U	U	U	U	U	NA	U
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	NA	U
2-Methylnaphthalene	0.5	U	83	7	1.5	U	U	120	U	NA	U
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	NA	U
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	NA	U
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	NA	U
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	NA	U
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	NA	U
2-Nitroaniline	U	U	U	U	U	U	U	U	U	NA	U
Acenaphthylene	U	U	U	U	U	U	U	U	U	NA	U

Table 4-5 (Continued)

**SOIL BORING SAMPLES**  
**SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation										
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-10	SB-013-11
Dimethyl phthalate	U	U	U	U	U	U	U	U	U	NA	U
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	NA	U
Acenaphthene	U	U	U	U	U	U	U	9.5	U	NA	U
3-Nitroaniline	U	U	U	U	U	U	U	U	U	NA	U
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	NA	U
Dibenzofuran	U	U	7.5	U	U	U	U	U	U	NA	U
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	NA	U
4-Nitrophenol	U	U	U	U	U	U	U	U	U	NA	U
Fluorene	U	U	20	U	1.3	U	U	U	U	NA	U
4-Chlorophenyl phenyl ether	U	U	U	U	U	U	U	41	U	NA	U
Diethyl phthalate	U	U	U	U	U	U	U	U	U	NA	U
4-Nitroaniline	U	U	U	U	U	U	U	U	U	NA	U
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	NA	U
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	NA	U
Azobenzen (1,2-Diphenolhydrazine)	U	U	U	U	U	U	U	U	U	NA	U
4-Bromophenyl phenyl ether	U	U	U	U	U	U	U	U	U	NA	U
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	NA	U

Table 4-5 (Continued)

**SOIL BORING SAMPLES**  
**SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>										
	<b>SB-013-01</b>	<b>SB-013-02</b>	<b>SB-013-03</b>	<b>SB-013-04</b>	<b>SB-013-05</b>	<b>SB-013-06</b>	<b>SB-013-07</b>	<b>SB-013-08</b>	<b>SB-013-09</b>	<b>SB-013-10</b>	<b>SB-013-11</b>
Atrazine	U	U	U	U	U	U	U	U		NA	U
Pentachlorophenol	U	U	16	U	U	U	U	U	U	NA	U
Phenanthrene	1.2	U	77	110	0.5	U	U	58	U	NA	U
Anthracene	U	U	7.9	U	U	U	U	U	U	NA	U
Carbazole	U	U	U	U	U	U	U	U	U	NA	U
Alachlor	U	U	U	U	U	U	U	U	U	NA	U
Di-n-butyl-phthalate	12	U	200	U	U	U	U	U	U	NA	U
Fluoranthene	U	U	7.7	U	U	U	U	U	U	NA	U
Benzidine	U	U	U	U	U	U	U	U	U	NA	U
Pyrene	U	U	28	10	U	U	U	U	U	NA	U
Butyl benzyl phthalate	U	U	67	U	0.5	U	U	U	U	NA	U
Benz(a)anthracene	U	U	6.9	U	U	U	U	U	U	NA	U
Chrysene	U	U	15	5	U	U	U	U	U	NA	U
3,3'-Dichlorobenzidine	U	U	U	U	2.2	U	U	U	U	NA	U
Bis(2-ethylhexyl)phthalate	5.5	U	490	19	U	U	U	320	U	NA	5.2
Di-n-octyl phthalate	U	U	U	U	U	U	U	U	U	NA	U
Benzo(b)fluoranthene	U	U	U	U	U	U	U	U	U	NA	U
Benzo(k)fluoranthene	U	U	U	U	U	U	U	U	U	NA	U

Table 4-5 (Continued)

**SOIL BORING SAMPLES**  
**SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation										
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-10	SB-013-11
Benzo(a)pyrene	U	U	3.9	U	U	U	U	U	U	NA	U
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	U	U	NA	U
Dibenz(a,h)anthracene	U	U	U	U	U	U	U	U	U	NA	U
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	U	U	NA	U

Key: mg/L Milligrams per Liter

U = Undetected

NA = Not Analyzed

Source: Envirometrics, Inc. 11401 Moog Drive, St. Louis, MO 63146. Analysis provided through R. F. Weston

Table 4-6

**SOIL BACKHOE**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	U	U	U	U	0.209	U	U	U	U	U	U
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	U	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	U	U	U	U
Acetone	U	34J	U	U	0.163B	U	750J	68J	4.30	20	260J
Vinyl Acetate	U	U	U	U	U	U	U	U	U	U	U
Methyl Iodide	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U
Allyl Chloride	U	U	U	U	U	U	U	U	U	U	U
Acetonitrile	U	U	U	U	U	U	U	U	U	U	U
Methylene Chloride	0.009	10J	U	[REDACTED]	0.014	U	[REDACTED]	[REDACTED]	0.900JB	4JB	[REDACTED]
Acrylonitrile	U	U	U	U	U	U	U	U	U	U	U

Table 4-6 (Continued)

**SOIL BACKHOE**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
Methyl tert butyl ether	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	0.01	U	U	U	U	U	U	U	U	U	U
Acrolein	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	0.013	U	0.007	U	0.007	U	U	58	U	U	U
2-Butanone (MEK)	U	U	U	U	0.154	U	U	U	0.430	U	U
2,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U
Propionitrile	U	U	U	U	U	U	U	U	U	U	U
Methacrylonitrile	U	U	U	U	U	U	U	U	U	U	U
Bromochloromethane	U	U	U	U	U	U	U	U	U	U	U
Chloroform	U	U	U	U	U	U	U	32J	U	U	U
1,1,1-Trichloroethane	U	U	0.010	U	0.006	0.694	U	250	U	U	U
1,1-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U
Benzene	0.005	U	0.004	U	0.172	U	U	42	U	1.9J	U
Trichloroethene	U	U	0.117	U	0.121	0.339	U	810	U	U	U

Table 4-6 (Continued)

**SOIL BACKHOE**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U
Methyl Methacrylate	U	U	U	U	U	U	U	U	U	U	U
1,4-Dioxane	U	U	U	U	U	U	U	U	U	U	U
Dibromomethane	U	U	U	U	U	U	U	U	U	U	U
Isobutyl Alcohol	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	U	9.7	U	U	0.083	U	U	49J	U	U	U
2-Nitropropane	U	U	U	U	U	U	U	U	U	U	U
Toluene	U		U		0.035	U			0.520J	U	
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U
Ethyl Methacrylate	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	U	U	U	U	U	U	U		U	U	U
Tetrachloroethene	U	U	0.007	U	0.006		U		U	U	U
1,3-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U
Chlorodibromomethane	U	U	U	U		U	U	U	U	U	U
Chlorobenzene	U	44	U		U	U	U	86	U	U	U

Table 4-6 (Continued)

**SOIL BACKHOE**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	U	2.6	U	U	U	U				0.740J	2.8J
m&p-Xylene	U	130	U			0.011	U				3.5
o-Xylene	U	35	U			U	U				1.7
Styrene	U	U	U	U	U	U	U	U	U	U	U
Bromoform	U	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene	U	U	U	U	U	U	U	180J	14J	1.5	4.1
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U
Bromobenzene	U	U	U	U	U	U	U	U	U	U	U
trans-1,4-Dichloro-2-butene	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichloropropane	U	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	U	8J	U	U	U	U	U	330J	26J	0.950	2.0J
2-Chlorotoluene	U	U	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	U	14J	U	U	U	U				1.8	10
4-Chlorotoluene	U	U	U	U	U	U	U	U	U	U	U
t-Butylbenzene	U	U	U	U	U	U	U	U	16J	8.2	160
1,2,4-Trimethylbenzene	U	43	U	U	U	U				4.5	17
sec-Butylbenzene	U	U	U	U	0.006	U	U	U	0.390J	2.4J	U

Table 4-6 (Continued)

**SOIL BACKHOE**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>										
	SS-013-01	SS-013-02	SS-013-03	SS-013-04	SS-013-05	SS-013-06	SS-013-07	SS-013-08	SS-013-09	SS-013-10	SS-013-11
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U
p-Isopropyltoluene	U	U	U	U	U	U	U	U	U	2.1J	U
1,4-Dichlorobenzene	U		U		U	U	U		U	U	U
1,2-Dichlorobenzene	U	U	U		U	U	U	39	U	U	U
n-Butylbenzene	U	U	U	U	U	U	U	13J	0.840	6.2	U
1,2-Dibromo-3-chloropropane	U	12J	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	U	6.7J	U	U	U	U	710	30JB	2.5B	1.6B	U
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U
2-Chloroethyl vinyl ether	U	U	U	U	U	U	U	U	U	U	U

Key: mg/L = Milligrams per Liter

U = Undetected

J = Detected, but below practical quantification

Source: Envirometrics, Inc. 11401 Moog Drive, St. Louis, MO 63146. Analysis provided through R. F. Weston. Analytical TDD S05-0105-013

Table 4-7

**SOIL BORING SAMPLES**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation									
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-11
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	U
Chloromethane	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U
Bromomethane	U	U	U	U	U	U	U	U	U	U
Chloroethane	U	U	U	U	U	0.5	U	U	U	U
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	0.008	U	U	U	U
Acetone	U	0.2	U	87J	88J	U	U	U	0.1	U
Vinyl Acetate	U	U	U	U	U	U	U	U	U	U
Methyl Iodide	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	U	0.007	U	U	U	U	U	U	U	U
Allyl Chloride	U	U	U	U	U	U	U	U	U	U
Acetonitrile	U	U	U	U	U	U	U	U	U	U
Methylene Chloride	4.8J	0.02	■■■■■	■■■■■	■■■■■	■■■■■	U	1.4J	10JB	U
Acrylonitrile	U	U	U	U	U	U	U	U	U	U

Table 4-7 (Continued)

**SOIL BORING SAMPLES**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation									
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-11
Methyl tert butyl ether	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	U	U	U	U	U	0.2	U	U	U	U
1,1-Dichloroethane	4	0.01	29J	U	U	U	2.3	2.2J	U	U
Acrolein	U	U	U	U	U	0.1	U	U	U	U
cis-1,2-Dichloroethene	36	0.01	300	U	U	U	5	U	U	U
2-Butanone (MEK)	U	0.01	U	U	U	U	1.1	U	U	U
2,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U
Propionitrile	U	U	U	U	U	U	U	U	U	U
Methacrylonitrile	U	U	U	U	U	U	U	U	U	U
Bromochloromethane	U	U	U	U	U	U	U	U	U	U
Chloroform	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	43	0.01	U	U	U	0.008	3.4	7.5	U	U
1,1-Dichloropropene	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U
Benzene	4.4	0.02	150	U	U	1.7	11	U	0.04	U
Trichloroethene	19	U	30J	U	280	0.4	1.3	4	U	U
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U

Table 4-7 (Continued)

**SOIL BORING SAMPLES**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation									
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-11
Methyl Methacrylate	U	U	U	U	U	U	U	U	U	U
1,4-Dioxane	U	U	U	U	U	U	U	U	U	U
Dibromomethane	U	U	U	U	U	U	U	U	U	U
Isobutyl Alcohol	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	U	U	23J	U	U	U	U	U	U	U
2-Nitropropane	U	U	U	U	U	U	0.7J	U	U	U
Toluene	72	0.7	24J	U	24J	0.04	5.9	19	U	U
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U
Ethyl Methacrylate	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	0.01	0.01	0.01	0.01	0.01	0.04	U	7	U	U
1,3-Dichloropropane	U	U	U	U	U	U	U	U	U	U
2-Hexanone	U	U	U	U	U	U	U	U	U	U
Chlorodibromomethane	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	3J	0.03	290	U	U	0.02	U	6.6	U	U
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	2.5	U	U	U

Table 4-7(Continued)

**SOIL BORING SAMPLES**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>									
	<b>SB-013-01</b>	<b>SB-013-02</b>	<b>SB-013-03</b>	<b>SB-013-04</b>	<b>SB-013-05</b>	<b>SB-013-06</b>	<b>SB-013-07</b>	<b>SB-013-08</b>	<b>SB-013-09</b>	<b>SB-013-11</b>
Ethylbenzene	12	0.3	95	U		0.05	U	8.7	U	U
m&p-Xylene	49	2.7		13		0.03	0.6J	33	U	U
o-Xylene	14	1.1	130	U		0.04	1.9	13	U	U
Styrene	U	U	U	U	U	U	0.5J	U	U	U
Bromoform	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene	U	0.01	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U
Bromobenzene	U	U	U	U	U	U	U	U	U	U
trans-1,4-Dichloro-2-butene	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichloropropane	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	U	0.02	15J	U	U	U	U	U	U	U
2-Chlorotoluene	U	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	1.8J	0.09	32J	U	U	U	U	3.8	U	U
4-Chlorotoluene	U	U	U	U	U	U	U	U	U	U
t-Butylbenzene	U	0.007	17J	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	5.3	0.2	83	U	83J	U	0.5J	11	U	0.7J
sec-Butylbenzene	U	0.2	U	U	U	U	U	U	U	U

Table 4-7(VContinued)

**SOIL BORING SAMPLES**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS (mg/L)**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Parameter	Sample Designation									
	SB-013-01	SB-013-02	SB-013-03	SB-013-04	SB-013-05	SB-013-06	SB-013-07	SB-013-08	SB-013-09	SB-013-11
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U
p-Isopropyltoluene	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	3.4J	0.03	440	U	U	U	10	6.6	U	U
1,2-Dichlorobenzene	2.6J	0.03	210	U	U	U	11	3.8	U	U
n-Butylbenzene	U	0.009	U	U	U	U	U	1.3J	U	U
1,2-Dibromo-3-chloropropnae	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	U	0.008	U	U	U	U	9.6	U	U	U
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U
Naphthalene	3	0.02	43J	U	U	U	0.4J	18B	U	1.7J
1,2,3-Trichlorobenzene	U	U	U	U	U	U	2.3	U	U	U
2-Chloroethyl vinyl ether	U	U	U	U	U	U	U	U	U	U

Key: mg L = Milligrams per Liter

U = Undetected

J = Detected, but below practical quantification

B = Reported value is greater than the method Detection Limit but less than the practical quantitation limit.

Source: Envirometrics, Inc. 11401 Moog Drive, St. Louis, MO 63146. Analysis provided through R. F. Weston. Analytical TDD S05-0105-013

Table 4-8

**GROUNDWATER SAMPLES  
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS  
CLAYTON CHEMICAL SITE ANALYSIS  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>									
	<b>GW-013-01</b>	<b>GW-013-02</b>	<b>GW-013-03</b>	<b>GW-013-04</b>	<b>GW-013-05</b>	<b>GW-013-06</b>	<b>GW-013-07</b>	<b>GW-013-08</b>	<b>GW-013-09</b>	<b>GW-013-10</b>
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	U
Chloromethane	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	U	U	U	U			U	U	U	U
Bromomethane	U	U	U	U	U	U	U	U	U	U
Chloroethane	U	U	U	4.8	U	U	U	U	U	U
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	U			U		U	0.003J	U	U	U
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	U	U	U
Acetone	U	14J	2.5J	U	2.9J	U	U	U	U	U
Vinyl Acetate	U	U	U	U	U	U	U	U	U	U
Methyl Iodide	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U
Allyl Chloride	U	U	U	U	U	U	U	U	U	U
Acetonitrile	U	U	U	U	U	U	U	U	U	U
Acrylonitrile	U	U	U	U	0.9JB	4JB	U	U	U	U
Methyl tert butyl ether	U	U	U	U	U	U	U	U	U	U

Table 4-8 (Continued)

**GROUND WATER SAMPLES VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>									
	<b>GW-013-01</b>	<b>GW-013-02</b>	<b>GW-013-03</b>	<b>GW-013-04</b>	<b>GW-013-05</b>	<b>GW-013-06</b>	<b>GW-013-07</b>	<b>GW-013-08</b>	<b>GW-013-09</b>	<b>GW-013-10</b>
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	U							U	U	U
Acrolein	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene				U		0.027	U	U	U	U
2-Butanone (MEK)	U	39	U	U	U	U	U	U	U	U
2,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U
Propriionitrile	U	U	U	U	U	U	U	U	U	U
Methacrylonitrile	U	U	U	U	U	U	U	U	U	U
Bromochloromethane	U	U	U	U	U	U	U	U	U	U
Chloroform	U	79	5.9	1.6	U	U	U	U	U	U
1,1,1-Trichloroethane				U		0.007	0.004J	U	U	0.003J
1,1-Dichloropropene	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	U		U	U	U	U	U	U	U	U
Benzene	U						U	U	U	U
Trichloroethene				U				U	U	U
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U

Table 4-8 (Continued)

**GROUNDWATER SAMPLES**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>									
	<b>GW-013-01</b>	<b>GW-013-02</b>	<b>GW-013-03</b>	<b>GW-013-04</b>	<b>GW-013-05</b>	<b>GW-013-06</b>	<b>GW-013-07</b>	<b>GW-013-08</b>	<b>GW-013-09</b>	<b>GW-013-10</b>
Methyl Methacrylate	U	U	U	U	U	U	U	U	U	U
1,4-Dioxane	U	U	U	U	U	U	U	U	U	U
Dibromomethane	U	U	U	U	U	U	U	U	U	U
Isobutyl Alcohol	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	U	42	49	U	6	U	U	U	U	U
2-Nitropropane	U	U	U	U	U	U	U	U	U	U
Toluene	U	U	U	U	U	U	U	U	U	0.003J
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U
Ethyl Methacrylate	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	U	98	U	U	U	U	U	U	U	U
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U
1,3-Dichloropropane	U	3.2J	U	U	U	U	U	U	U	U
2-Hexanone	U	U	U	U	U	U	U	U	U	U
Chlorodibromomethane	U	U	U	U	U	U	U	U	U	U
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U

Table 4-8 (Continued)

**GROUNDWATER SAMPLES**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>										
	<b>VOC's (mg/L)</b>	<b>GW-013-01</b>	<b>GW-013-02</b>	<b>GW-013-03</b>	<b>GW-013-04</b>	<b>GW-013-05</b>	<b>GW-013-06</b>	<b>GW-013-07</b>	<b>GW-013-08</b>	<b>GW-013-09</b>	<b>GW-013-10</b>
Chlorobenzene	U	10	U	0.6	U	0.003J	U	U	U	U	U
1,1,1,2-Tetrachloroethane	U	4.6J	U	U	U	U	U	U	U	U	U
Ethylbenzene	U	3.6J	4.4J	I	0.7J	U	U	U	U	U	U
m&p-Xylene				2.5	4.8J	0.004J	U	U	U	U	U
o-Xylene		2.9J	3.3J	0.5J	U	U	U	U	U	U	U
Styrene	U	U	U	U	U	U	U	U	U	U	U
Bromoform	U	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene	U	U	U	0.4J	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	U	28	U	U	U	U	U	U	U	U	U
Bromobenzene	U	U	U	U	U	U	U	U	U	U	U
trans-1,4-Dichloro-2-butene	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichloropropane	U	3.5J	U	U	U	U	U	U	U	U	U
n-Propylbenzene	U	U	U	U	U	U	U	U	U	U	U
2-Chlorotoluene	U	U	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	U	U	U	U
4-Chlorotoluene	U	U	U	U	U	U	U	U	U	U	U
t-Butylbenzene	U	U	U	U	U	0.02	U	U	0.022	U	

Table 4-8 (Continued)

**GROUNDWATER SAMPLES**  
**VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Parameter</b>	<b>Sample Designation</b>									
	<b>GW-013-01</b>	<b>GW-013-02</b>	<b>GW-013-03</b>	<b>GW-013-04</b>	<b>GW-013-05</b>	<b>GW-013-06</b>	<b>GW-013-07</b>	<b>GW-013-08</b>	<b>GW-013-09</b>	<b>GW-013-10</b>
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	U	U	U
sec-Butylbenzene	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U
p-Isopropyltoluene	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U
n-Butylbenzene	U	U	U	U	U	U	U	U	U	U
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U
Naphthalene	U	U	U	U	7.1J	U	U	U	U	U
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U
2-Chloroethyl vinyl ether	U	U	U	U	U	U	U	U	U	U
Methylene chloride	210	320	71	0.4J	27	0.01J	0.009J	3.4J	U	0.015J

Key: mg/L = Milligrams per Liter

U = Undetected

J = Detected, but below practical quantification

VOC = Volatile Organic Compound

Source: Envirometrics, Inc. 11401 Moog Drive, St. Louis, MO 63146. Analysis provided through R. F. Weston

Table 4-9

**DRUM DOCK STORAGE INVENTORY - DRUM, CONTAINER SURVEY  
CLAYTON CHEMICAL SITE ANALYSIS  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5, 2001 TO JUNE 7, 2001**

<b>Generator</b>	<b>PDS NO.</b>	<b>Bay #</b>	<b>Description</b>	<b>IEPA #</b>	<b>Comments</b>
RRG/CCC Inventory	NA	1	Asphalt Sealer	1	
RRG/CCC Inventory	NA	1	Asphalt Sealer	2	
RRG/CCC Inventory	NA	1	Asphalt Sealer	3	
Owens	1897B	13	Caustic	32	
Owens	1897B	13	Caustic	34	
Owens	1897A	13	Caustic	36	passed corrosive
Owens	1897A	13	Caustic	33	
Komatsu	2160C	13	Caustic Solids	21	
Komatsu	2160C	13	Caustic Solids	9	
ADM Packaging	1571A	13	Corrosive	19	
Nascote	2243A	13	Corrosive	40	
Wagoner	1783A	13	Corrosive	26	
Overnite	2082A	13	Corrosive	117	
RRG Internal	Internal	4	Haz. Liquid (from samples)		Found in Bay 3
Bazan	2248	5	Hazardous Solids	can't read	
ADM Bio	2148A	6	Hazardous Solids	Not found	Not found
Bazan	2248	6	Hazardous Solids	55	passed flammable
RRG Internal	Internal	6	Hazardous Solids	57	
RRG Internal	Internal	6	Hazardous Solids	46	
RRG Internal	Internal	6	Hazardous Solids	45	
RRG Internal	Internal	4	Hazardous Solids	44	
RRG Internal	Internal	4	Hazardous Solids	43	
ADM Bio	2184A	7	Hazardous Semi-Solids	54	
Nascote	2242A	1	Hazardous Solids	70	
Nascote	2242A	3	Hazardous Solids	71	
ADM Corn Sweetner	2238A	1	Hazardous Solids	118	
ADM Corn Sweetner	2238A	1	Hazardous Solids	119	
ADM Vitamin E	2235A	1	Hazardous Solids	76	passed flammable

**Table 4-9 (Continued)**

**DRUM DOCK BUILDING INVENTORY - DRUM, CONTAINER SURVEY**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Generator</b>	<b>PDS NO.</b>	<b>Bay Number</b>	<b>Description</b>	<b>IEPA #</b>	<b>Comments</b>
ADM Vitamin E	2235A	1	Hazardous Solids	77	passed flammable
Republic	2219A	1	Hazardous Solids	7	
Republic	2219A	1	Hazardous Solids	8	
RPS	2233A	2	Toxic Solids	78	
ADM Corn Sweetener	2174A	3	Hazardous Solids	25	
Komatsu	2220B	3	Hazardous Solids	37	
Komatsu	2220B	3	Hazardous Solids	29	
Chemetco	2191A	6	Hazardous Solids	47	
Nascote	2242A	13	Hazardous Solids	95	
Nascote	2242A	13	Hazardous Solids	100	
Nascote	2242A	13	Hazardous Solids	99	
Nascote	2242A	13	Hazardous Solids	98	
Nascote	2242A	13	Hazardous Solids	97	
Nascote	2242A	13	Hazardous Solids	96	
Nascote	2242A	13	Hazardous Solids	95	
Nascote	2242A	13	Hazardous Solids	94	
Nascote	2242A	13	Hazardous Solids	93	
Nascote	2242A	13	Hazardous Solids	92	
Nascote	2242A	13	Hazardous Solids	91	
Nascote	2242A	13	Hazardous Solids	89	
Nascote	2242A	13	Hazardous Solids	88	
Nascote	2242A	13	Hazardous Solids	87	
Nascote	2242A	13	Hazardous Solids	86	
Nascote	2242A	13	Hazardous Solids	Over pack	
Nascote	2242A	13	Hazardous Solids	Over pack	
Nascote	2242A	13	Hazardous Solids	Over pack	
Nascote	2242A	13	Hazardous Solids	Over pack	
Nascote	2242A	13	Hazardous Solids	Over pack	

**Table 4-9 (Continued)**

**DRUM DOCK BUILDING INVENTORY - DRUM, CONTAINER SURVEY**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Generator</b>	<b>PDS NO.</b>	<b>Bay Number</b>	<b>Description</b>	<b>IEPA #</b>	<b>Comments</b>
Nascote	2242A	13	Hazardous Solids	Over pack	
Nascote	2242A	13	Hazardous Solids	Over pack	
Nascote	2242A	13	Hazardous Solids	111	
Nascote	2242A	13	Hazardous Solids	110	
Nascote	2242A	13	Hazardous Solids	109	
Nascote	2242A	13	Hazardous Solids	108	
Nascote	2242A	13	Hazardous Solids	72	
Nascote	2242A	13	Hazardous Solids	73	passed oxidizer test
Nascote	2242A	13	Hazardous Solids	74	
ADM Fabrication	1367C	13	Hydrochloric Acid	13	
ADM Fabrication	2072C	13	Hydrochloric Acid	Not found	Not found
Scientific Associates	2072C	13	Lab Pac Hg	36	
RRG Internal	Internal	6	Line Flush from Reclaim	56	
RRG Internal	NA	1	Line Flush From Reclaim Perc		
Parkway School	2251A	6	Liquid Fuel	53	passed oxidizer test
Republic	1024A	1	Liquid Fuel Water w/Ag/CN	80	
Republic	1024A	1	Liquid Fuel Water w/Ag/CN	99	
Republic	1024A	1	Liquid Fuel Water w/Ag/CN	81	passed cyanide
National Graphics	2031A	13	Methylethanolamine	10	
National Graphics	2031A	13	Methylethanolamine	39	
Builders Square	2206A	13	Muriatic Acid	38	
Illinois Engraving	1303A	13	Nitric Acid	24	passed corrosive test
Illinois Engraving	1787A	13	Nitric Acid	35	
National Grapics	2032B	13	Nitric Acid		
ADM Fabrication	1367A	13	Nitric Acid/Sulfuric Acid O/P	28	
ADM Fabrication	1367A	13	Nitric Acid/Sulfuric Acid O/P	44	
EnviriVac	1199A	4	Non Haz Ethylene Glycol	42	
CIPS	1114A	13	Non Haz Ethylene Glycol	111	

**Table 4-9 (Continued)**

**DRUM DOCK BUILDING INVENTORY - DRUM, CONTAINER SURVEY**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

<b>Generator</b>	<b>PDS NO.</b>	<b>Bay Number</b>	<b>Description</b>	<b>IEPA #</b>	<b>Comments</b>
CIPS	1114A	13	Non Haz Ethylene Glycol	110	
CIPS	1114A	13	Non Haz Ethylene Glycol	109	
CIPS	1114A	13	Non Haz Ethylene Glycol	108	
CIPS	1114A	13	Non Haz Ethylene Glycol	107	
CIPS	1114A	13	Non Haz Ethylene Glycol	113	
CIPS	1114A	13	Non Haz Ethylene Glycol	114	
CIPS	1114A	13	Non Haz Ethylene Glycol	115	
CIPS	1114A	13	Non Haz Ethylene Glycol	116	
Northrop	1207A	13	Non Haz Ethylene Glycol	112	
ADM Corn Sweetners	1874C	2	Non Haz Semi-Solids	15	
ADM Corn Sweetners	1874C	2	Non Haz Semi-Solids	16	
ADM Corn Sweetners	1874C	2	Non Haz Semi-Solids	17	
ADM Corn Sweetners	1874C	2	Non Haz Semi-Solids	18	
ADM Corn Sweetners	1874C	2	Non Haz Semi-Solids	20	
ADM Corn Sweetners	1619A	3	Non Hazardous Solids	27	
ADM Mechanical	1669D	4	Non Hazardous Solids	43	
Nascote	2243C	7	Non Hazardous Solids	66	
Sligo	1784A	7	Non Hazardous Solids	67	
National Graphics	2033D	3	Non Hazardous Solids	64	
National Graphics	2033B	3	Non Hazardous Solids	65	
National Graphics	2033D	3	Non Hazardous Solids	69	
ADM East	2040A	1	Non Hazardous Solids	6	
ADM Fabrication	1370A	2	Oxidizing Solid	Not found	Not Found
ADM Fabrication	1370A	13	Oxidizing Solid	14	
RRG Internal	Internal	6	Perc Solids from Reclaim/Consol	49	
RRG Internal	Internal	6	Perc Solids from Reclaim/Consol	50	
RRG Internal	Internal	6	Perc Solids from Reclaim/Consol	51	Maybe extremely haz
RRG Internal	Internal	6	Perc Solids from Reclaim/Consol	52	

Table 4-9 (Continued)

**DRUM DOCK BUILDING INVENTORY - DRUM, CONTAINER SURVEY**  
**CLAYTON CHEMICAL SITE ANALYSIS**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 2001 TO JUNE 7, 2001**

Generator	PDS NO.	Bay Number	Description	IEPA #	Comments
RRG Internal	Internal	6	Perc Solids from Reclaim/Consol	58	
RRG Internal	Internal	6	Perc Solids from Reclaim/Consol	59	
RRG Internal	Internal	6	Perc Solids from Reclaim/Consol	60	
RRG Internal	Internal	6	Perc Solids from Reclaim/Consol	61	
RRG Internal	Internal	6	Perc Solids from Reclaim/Consol	62	
St. Louis Parks	633B	4	Soap Water	41	
National Graphics	2032A	13	Sodium Hydroxide	11	
Petrolite	2119A	13	Sodium Hydroxide	30	
ADM Fabrication	1367D	13	Sodium Nitrate	23	
RRG	not labeled	3	Waste Solids	no label	
RRG	not labeled	3	Flammable	no label	
RRG	not labeled	3	Waste Solids	no label	
Label Scratched	Can't Read	3	Hazardous Solid	no label	
RRG	not labeled	6	Sludge Accumulation	48	not labeled
National Graphics	2032B	6	Nitric Acid	63	5 gallon bucket
National Graphics	2032D	7	Non Hazardous Liquid	68	
Generator Unknown	2070A	8	Flammable Liquid	no label	
RRG	not labeled	south room	Flammable Liquid	122	5 gallon bucket
RRG	not labeled	south room	Floor Dry	121	1 gallon
ADM Fabrication	1367B	13	Caustic Soda	4	1 gallon
National Graphics	2032A	13	Sodium Hydroxide	12	
RRG	1279A	collection area	Sampling Jars	Not found	Collection Area
RRG	NA	see comments	Approximately 2,536 Sampling Jars in boxes and jars	Not found	Located on southwest/southeast wall.

Key: PDS NO. = A number found on the drums and corresponds to RRG weekly drum inventory.

**Table 4-10**

**EAST STORAGE BUILDING INVENTORY  
CLAYTON CHEMICAL SITE ANALYSIS  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5, 2001 TO JUNE 7, 2001**

<b>TYPE OF MATERIAL</b>	<b>NUMBER OF ITEMS</b>	<b>Comments</b>
Antifreeze	8	55 Gallon Drums
Gasoline	3	55 Gallon Drums
Activated Carbon	2	55 Gallon Drums
Reactive Carbon	10	55 Gallon Drums
Carbon Powder	1	55 Gallon Drums
Ethylene Glycol	1	55 Gallon Drum
Potassium Carbonate	25	Bags
Unknowns	3	55 Gallon Drums
Compressed Gas	1	Cylinder
Nitrogen Cylinder	3	Cylinders

Table 4-11

**BOILER GARAGE BUILDING INVENTORY - TANK, DRUM, CONTAINER SURVEY  
CLAYTON CHEMICAL SITE ANALYSIS  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5, 2001 TO JUNE 7, 2001**

TYPE OF MATERIAL	NUMBER OF ITEMS	Comments
Unknown Solid	1	5 gallons
Miscellaneous Boiler Chemicals	1	35 gallons
Miscellaneous Boiler Chemicals	1	55 gallons
Fiber Drum Solid Desiccate	1	35 gallons
Drum of Sodium Hexamethphospahte	1	35 gallons
Boiler Feed Water Treatment	1	20 gallons
Lube Oil Dispenser	1	Unknown
Bags Water Softener Salt	25	Bags
Oxygen Scavenger Corrosive	1	20 gallons
Mole Sieve	13 Drums	All Full
Sodium Bisulfate	1	liquid
Isopropanol	1	3/4 full UN1219
Morpholine	1	drum
Spent Carbon	6	used for absorption
Caustic Substances	35	in plastic buckets. In over-pack. For cleaning
10% Sulfuric Acid	1	drum
Robinol N-10	1	Non-Haz
Amonium Hydroxide	1	drum
Dry Solids	1	drum
Oakite boiler treatment	1	appears to be leaking - busted
Unknown	1	could not open/possible hazardous. No markings
Caustic Substances	3	in plastic buckets. In over-pack. For cleaning
Boiler treatment	2	5 gallons. Half full
Colling tower treatment	1	5 gallons

Table 4-12

**LABRATORY INVENTORY  
CLAYTON CHEMICAL SITE ANALYSIS  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5, 2001 TO JUNE 7, 2001**

<b>TYPE OF MATERIAL</b>	<b># OF ITEMS</b>	<b>Comments</b>
Methane calibration gas	1	
ACE Floc	3	
Isopropyl Alcohol	1	
Phenolphthalein	1	
2N	1	1 gallon
50% Sodium Hydroxide	1	
Miscellaneous Lab material	150	Chromium, Sodium, Manganese, Mercuric Nitrate, Silver in Solution, Silver Reference Solution, Selenium, Mercury 100ppm Solution, Custom Multi Element Solution, Zinc in Solution, ECT...Located in Center of room
Sodium Bisulfite		The materials were on the north wall in lower cabinet. There were approximately 70 containers. These are the few that are listed.
Potassium Hydrogen Phthalate		
Potassium Chloride		
Sodium Dichromate		
Phenolphthalein		
Bromine		
Miscellaneous samples	9	Located on west wall drawer.
Nitric Acid	10	Acid Storage Area.
Hydrochloric Acid	5	
Phenolphthalein	5	
Sulfuric Acid	5	
Hydrogen Peroxide	5	
Acetone	1	Above Acid Storage
Isobutanol	1	
Miscellaneous samples	4	
Hexane	1	Northwest corner lower cabinet.
Acetone	1	
Miscellaneous samples	20	Liquid samples

Table 4-13

**TEST PIT SUMMARY  
CLAYTON CHEMICAL  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5, 6, and 7, 2001**

LOCATION	DEPTH (feet)	DESCRIPTION	COMMENTS
1	6	6"black cinder, 3' dark soil, 3' grey clay	
2	6	6"black cinder, 3' dark soil, 3' grey clay	
3	6	6"black cinder, 3' dark soil, 3' grey clay	
4	3	6"black cinder, 3' dark soil	Hit some type of liner. Stopped digging.
5	8	6"black cinder, 4' dark grey soil, 4' grey clay	Sample taken SS-013-01 from 1' green solid material at location. Aroma in pit.
6	6	6"black cinder, 3' dark soil, 3' dark grey clay	Paint cans in ground. Soil sample taken. SS-013-02 from 5'. Aroma in pit.
7	6	6"black cinder, 3' dark soil, 3' dark grey clay	
8	5.5	6"black cinder, 3' dark soil, 2.5' grey clay, some brown sand	
9	8	6"black cinder, 5' dark soil, 3' grey clay, some brown sand	
10	8	6"black cinder, 5' dark soil, 3' grey clay, some brown sand	
11	6	6"black cinder, 3' dark soil, 3' grey clay, some brown sand	
12	6	6"black cinder, 4' dark soil, 3' grey clay, some brown sand	
13	5	6"black cinder, 4' dark soil, 2' grey clay, some brown sand	Soil sample taken. SS-013-03 from 3'.
14	6	6"black cinder, 4' grey soil, 2' grey clay, some brown sand	
15	6	6"black cinder, 4' grey soil, 2' grey clay, some brown sand	
16	6	6"black cinder, 4' grey soil, 2' grey clay, some brown sand	

Table 4-13 (Continued)

**TEST PIT SUMMARY**  
**CLAYTON CHEMICAL**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 6, and 7, 2001**

LOCATION	DEPTH (feet)	DESCRIPTION	COMMENTS
17	6	6"black cinder. 4' grey soil, 2' grey clay. some brown sand	
18	6.5	6"black cinder. 4' grey soil. 2' grey clay. some brown sand	
19	6	6"black cinder, 3' dark clay. 6'brown clay	
20	6	6"black cinder, 3' dark clay. 6'brown clay	
21	6	6"black cinder, 3' dark clay. 6'brown clay	
22	7	1'black cinders. 3' brown clay. 3' black clay	
23	7	1'black cinders. 3' brown clay. 3' black clay	Paintlike material-red. green.
24	7	1'black cinders. 3' brown clay. 3' grey clay	Paintlike material-red. green. Soil sample taken SS-013-04 taken from 5'.
25	7	1'black cinders. 3' brown clay, 3' grey clay	Paintlike material-red. green. blue. and yellow. ..
26	7	1'black cinders. 3' brown clay. 3' grey clay	White. flaky. semihard material.
27	7	1'black cinders. 3' brown clay. 3' grey clay	White. flaky. semihard material.
28	7	1'black cinders. 3' brown clay. 3' grey clay	White. flaky. semihard material.
29	8	1'black cinders, 3' brown clay. 3' grey clay	White. flaky. semihard material.
30	8	1'black cinders. 3' brown clay. 3' grey clay	No material in pit.
31	8	1'black cinders. 3' brown clay. 3' grey clay	White. flaky. semihard material. odor. Sample taken SS-013-05 from 5'.
32	8	1'black cinders. 3' brown clay, 3' grey clay	White. flaky. semihard material.

Table 4-13 (Continued)

**TEST PIT SUMMARY**  
**CLAYTON CHEMICAL**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 6, and 7, 2001**

LOCATION	DEPTH (feet)	DESCRIPTION	COMMENTS
33	8	1' black cinders, 3' brown clay, 3' grey clay	Paintlike odor.
34	8	1' black cinders, 3' brown clay, 3' grey clay	Orange paint with odor.
35	8	1' black cinders, 3' brown clay, 3' grey clay	
36	8	1' black cinders, 3' brown clay, 3' grey clay	
37	8	1' black cinders, 3' brown clay, 3' grey clay	
38	8	1' black cinders, 3' brown clay, 3' grey clay	
39	8	1' black cinders, 3' brown clay, 3' grey clay	
40	8	1' black cinders, 3' brown clay, 3' grey clay	
41	8	1' black cinders, 3' brown clay, 3' grey clay	
42	8	1' black cinders, 3' brown clay, 3' grey clay	
43	8	1' black cinders, 3' brown clay, 3' grey clay	
44	8	1' black cinders, 3' brown clay, 3' grey clay	Red paint with odor. Sample taken SS-013-06 from 3'.
45	8	1' black cinders, 3' brown clay, 3' grey clay	Paintlike odor.
46	6	3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand	
47	6	3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand and gravel	Sample taken SS-013-07 from 3'.

Table 4-13 (Continued)

**TEST PIT SUMMARY**  
**CLAYTON CHEMICAL**  
**SAUGET, ST. CLAIR COUNTY, ILLINOIS**  
**JUNE 5, 6, and 7, 2001**

LOCATION	DEPTH (feet)	DESCRIPTION	COMMENTS
48	6	3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand and gravel	West side of Drum Dock/Storage Area.
49	7	3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand and gravel	
50	6	3" of black cinders, 3' brown clay, 3' dark grey clay, water appears	Odor, oily appearance. Sample taken SS-013-08 taken from 5'.
51	6	2" gravel, 6" of brown dirt, cinder mixed with sand, fill material, concrete	
52	6	2" gravel, 6" of brown dirt, cinder mixed with sand, fill material, concrete, railroad tie	
53	8	3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand	
54	8	3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand	Odor from soil. Sample taken SS-013-09 taken from 5'.
55		3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand	Odor from soil. Sample taken SS-013-10 taken from 5'.
56		3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand	Odor from soil.
57		3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand	Odor from soil.
58		3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand	Odor from soil.
59		1" gravel, 3" of black cinders, 3' brown clay, 3' dark grey clay mixed with sand	Odor from soil. Sample taken SS-013-11 taken from 4'.

Table 4-14

**GEOPROBE SUMMARY  
CLAYTON CHEMICAL  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5, 6, and 7, 2001**

LOCATION	DEPTHs (feet)	DESCRIPTION	COMMENTS
1	12-16	Mult-Rae reading not recorded	Groundwater sample taken GW-013-01 at 12-16 feet
2	0-8	Muli-Rae reading not recorded	Two soil samples taken SB-013-01 at 0-4' SB-013-02 at 4-8"
3	8-12	Mult-Rae reading VOCs @ 41 - 902 ppm	Groundwater sample taken GW-013-02 at 8-12 feet
4	0-4	Mult-Rae reading VOCs @ 18 ppm	Soil sample taken SB-013-04 at 4 feet
5	0-4	Mult-Rae reading VOCs @ 495 ppm	Soil sample taken SB-013-03 at 4 feet
6	0-16	Mult-Rae reading VOCs @ 475-546 ppm Purple coloration. Oily sheen from 8-16 feet.	Soil sample SB-013-05 taken at 0-4 feet. Groundwater sample taken GW-013-03 from 4-8 feet
7	0-12	Mult-Rae reading VOCs @ 12.1-69.2 ppm Appears to be oil saturated.	No sample taken
8	0-12	Mult-Rae reading VOCs @ 19.5-296 ppm Appears to be oil saturated.	No sample taken
9	0-12	Mult-Rae reading VOCs @ 37.2-90.2 ppm Appears to be oil saturated.	No sample taken
10	0-12	Mult-Rae reading VOCs @ 35-129 ppm Appears to be oil saturated.	No sample taken
11	0-12	Mult-Rae reading VOCs @ 0-20 ppm Appearance of oil residue.	No sample taken
12	0-16	Mult-Rae reading VOCs @ 29.7-76.1 ppm	Groundwater sample taken GW-013-04 from 12-16 feet
13	0-12	Mult-Rae reading VOC's @ 0-34 ppm.	Soil sample SB-013-06 taken at 0-4 feet
14	0-12	Mult-Rae reading VOCs @ 02-82 ppm	Soil sample SB-013-07 taken at 8-12 feet
15	0-12	Mult-Rae reading VOCs @ 12.7-307 ppm	Soil sample SB-013-08 taken at 0-4 feet Groundwater sample taken GW-013-05 from 8-12 feet
16	0-16	Mult-Rae reading VOCs @ 1.4-28 ppm Petroleum odor.	Soil sample SB-013-09 taken at 4-8 feet Groundwater sample taken GW-013-06 from 8-12 feet

Table 4-14 (Continued)

**GEOPROBE SUMMARY  
CLAYTON CHEMICAL  
SAUGET, ST. CLAIR COUNTY, ILLINOIS  
JUNE 5, 6, and 7, 2001**

LOCATION	DEPTH (feet)	DESCRIPTION	COMMENTS
17	0-12	Mult-Rae reading VOCs @ 12.7-307 ppm	Groundwater sample taken GW-013-07 from 8-12 feet
18	0-12	Mult-Rae reading VOCs @ 0.4-0.5 ppm	No samples taken
19	0-12	Mult-Rae reading VOCs @ 0.0 ppm	Soil sample SB-013-10 taken at 8-12 feet
20	0-12	Mult-Rae reading VOCs @ 2-297 ppm	Soil sample SB-013-11 taken at 0-4 feet
21	0-12	Mult-Rae reading not recorded	Groundwater sample taken GW-013-08 from 8-12 feet
22	0-12	Mult-Rae reading not recorded	Groundwater sample taken GW-013-09 from 8-12 feet
23	0-12	Mult-Rae reading not recorded	Groundwater sample taken GW-013-10 from 8-12 feet

Source:

Information taken from field notes

The Multi-Rae, a multigas monitor, was calibrated before use.

## **APPENDIX C**

**C1**



**Site:** Clayton Chemical      **Date:** June7, 2001      **Time:** 1300      **Photographer:** Keith Hughes  
**Location/Direction:** Entrance into Clayton Chemical  
**Subject:** Mobile 1 Avenue into Clayton Chemical



**Site:** Clayton Chemical      **Date:** June6, 2001      **Time:** 10:00      **Photographer:** Keith Hughes  
**Location/Direction:** Down.  
**Subject:** Drum top found in test pit number 24 where sample number SS-013-04 was taken.



**Site: Clayton Chemical**

**Date: June 5, 2001**

**Time:**

**Photographer: Keith Hughes**

**Location/Direction: South along eastern fence of property**

**Subject: Where test pits 1 thru 16 were placed.**



**Site: Clayton Chemical**

**Date: June 5 2001**

**Time:**

**Photographer: Keith Hughes**

**Location/Direction: South along western side of the property**

**Subject: Near office building, where test pit # 59.**



**Site:** Clayton Chemical

**Date:** June 5, 2001

**Time:**

**Photographer:** Stephanie Parfitt

**Location/Direction:** Drum 1897A, MFR #31, and USEPA sample #10, Sample HAZCAT

**Subject:** Picture of Bay #13 HAZCAT



**Site:** Clayton Chemical

**Date:** June 6, 2001

**Time:**

**Photographer:** Stephanie Parfitt

**Location/Direction:** Southwest, Drum Storage Area samples in boxes

**Subject:** Boxed samples



**Site:** Clayton Chemical

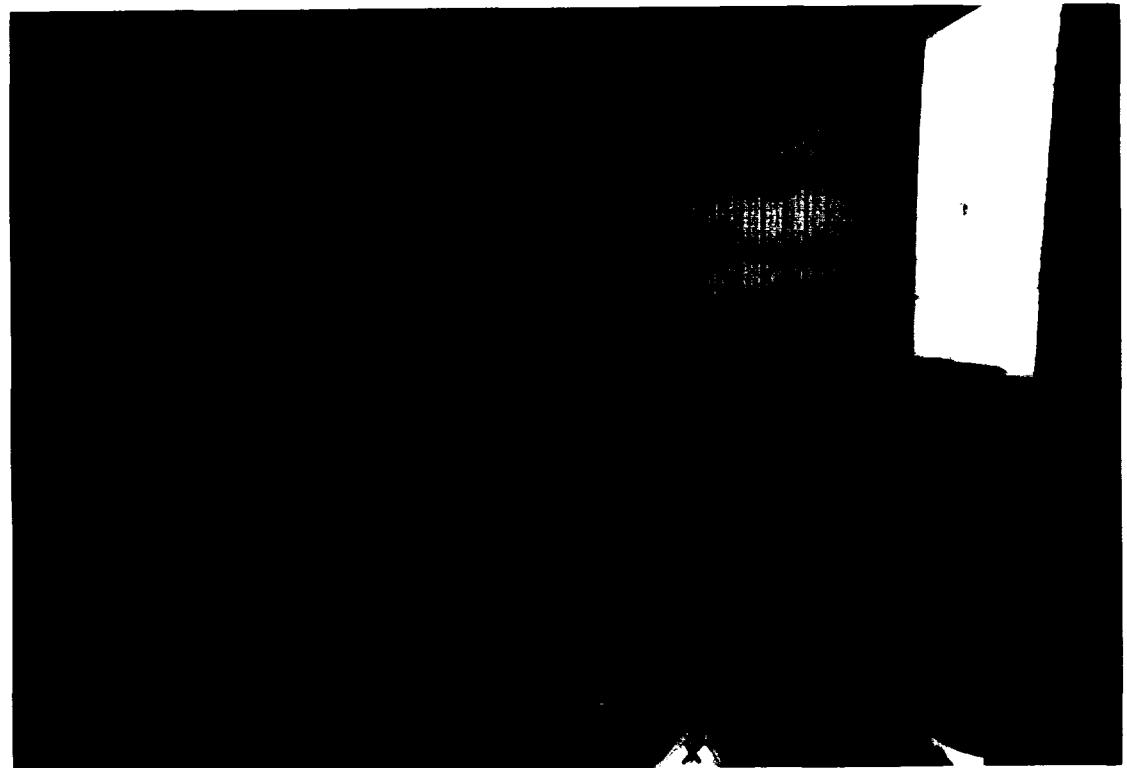
**Date:** June 6, 2001

**Time:**

**Photographer:** Stephanie Parfitt

**Location/Direction:** Northeast, Drum Storage Area

**Subject:** Picture of Bay #1



**Site:** Clayton Chemical

**Date:** June 6, 2001

**Time:**

**Photographer:** Stephanie Parfitt

**Location/Direction:** Northeast, Drum Storage Area

**Subject:** Picture of Bay #2



**Site: Clayton Chemical**

**Date: June 7, 2001**

**Time:**

**Photographer: Stephanie Parfitt**

**Location/Direction: Facing East**

**Subject: Picture of drums on west side of boiler/compressor room.**



**Site: Clayton Chemical**

**Date: June 7, 2001**

**Time: 10:00**

**Photographer: Stephanie Parfitt**

**Location/Direction: Facing East.**

**Subject: Picture of all nine drums on east side of boiler/compressor room.**



**Site:** Clayton Chemical      **Date:** June 6, 2001      **Time:** 1400      **Photographer:** Keith Hughes  
**Location/Direction:** Down - Test Pit #31  
**Subject:** White Flaky material



**Site:** Clayton Chemical      **Date:** June 6, 2001      **Time:** 1415      **Photographer:** Keith Hughes  
**Location/Direction:** North towards the drum storage area.  
**Subject:** White Flaky material



**Site: Clayton Chemical**

**Date: June7, 2001**

**Time: 1300**

**Photographer: Keith Hughes**

**Location/Direction: East- Test Pits 30 thru 28 area where strong odors were noticed.**

**Subject: Odors and some white flaky materials were found.**



**Site: Clayton Chemical**

**Date: June6, 2001**

**Time: 0930**

**Photographer: Keith Hughes**

**Location/Direction: East along fence near test pit number 6.**

**Subject: Sample SS-013-02 was taken from. Paint cans drum lids were uncovered.**



**Site:** Clayton Chemical

**Date:** June 6, 2001

**Time:**

**Photographer:** Stephanie Parfitt

**Location/Direction:** Picture of south property, 3 rusted AST's.

**Subject:** Rusted AST's in southern portion of property



**Site:** Clayton Chemical

**Date:** June 6 2001

**Time:**

**Photographer:** Stephanie Parfitt

**Location/Direction:** South side of the property AST'S

**Subject:** South of property.



**Site:** Clayton Chemical

**Date:** June 6, 2001

**Time:**

**Photographer:** Stephanie Parfitt

**Location/Direction:** Inside CC; AST's.

**Subject:** Rusted AST's on site



**Site:** Clayton Chemical

**Date:** June 6, 2001

**Time:**

**Photographer:** Stephanie Parfitt

**Location/Direction:** Inside CC; AST's.

**Subject:** Rusted AST's on site

## **APPENDIX D**

**D1**

Date: 06/06/2001

**Resource Recovery Group, LLC**  
**Weekly Tank Inventory Report**

DATE SEALED	TANK #	VOLUME OUTAGE MEASURED	SEAL 1	SEAL 2	SEAL 3	SEAL 4	SEAL 5	SEAL 6	SEAL 7	COMMENTS
08/28/98	T-51	17"	6433	483538	483527	483554				
08/10/99	T-52	84"	1303	483539	483537	483492	483541			Pumped drums from DS. 06/23/99 Shipped 4202 gal from 8/7 incident
08/10/99	T-RC	108"	7560	483465	483418	483515				
08/28/98	S-1	17"	8793	483572	483580					
08/28/98	S-2	10"	9208	483600	483556					
08/28/98	S-3	110"	4306	483508	483521	483518	483545			
08/28/98	S-4	32"	7908	483513	483543					
11/18/98	S-6		0	483544						Shipped ~5,983 gallons on 11/16/98. Shipped ~2,515 gallons on 11/18/98
07/13/99	S-7		0	483449						Shipped ~4,380 gallons on 05/17/99. 100 gallons line flush. Balance 7/13.
08/31/98	S-8	143"	1359	483542	483599					Shipped 5/11/01
08/31/98	S-5	13"	9029	483524	483566					
08/31/98	T-11	28"	22747	483498	483588					
08/31/98	T-12	10"	26394	483584	483551	483575	483488	483501		
08/31/98	T-13	20"	26247	483506	483507					
08/31/98	T-14	27"	22976	483477						
10/15/98	T-10	EMPTY	0	483480	483427					Shipped 3562 gallons on 9/28/98. Shipped 995 gallons on 10/15/98.
02/08/99	T-23	EMPTY	0	483497	483593					Shipped 900 gallons on 9/16/98. Shipped 950 gallons on 9/23/98.
08/31/98	T-27	EMPTY	0	483529	483536					
10/02/98	T-28	EMPTY	0	483570	483552					Emptied (3291 gallons) on 10/2/98.
12/30/98	T-24	EMPTY	0	483489	483581					Shipped 2072 gallons on 10/15/98.
08/31/98	T-33	14"	4537	483442	483526					Consolidated all perc on site on 02/17/99. Shipped 950 gallons 04/30/99.
12/30/99	T-37	34"	5625	483574	483475					Consolidated all perc on site on 02/17/99.
08/31/98	T-17	35"	5437	483490	483576					
09/10/98	T-39	EMPTY	0	483547	483587					Transferred to drums on 9/10/98
12/14/98	T-34	EMPTY	0	483466	483473					Shipped ~1377 gallons on 12/14/98. Balance of loss due to line flush, etc.
02/17/99	T-38	EMPTY	0	483511	483567					Shipped ~2200 gallons on 2/17/99/98. Balance of loss due to line flush, et
08/31/98	T-18	EMPTY	0	483531	483439	483561				
08/31/98	T-41		5397	483444	483550	483535				
10/02/98	SS DRYER		0	483467	483517					Emptied (1800 gallons) on 10/2/98.
08/31/98	T-45	68"	1536	483474	483534					
08/10/99	T-46	4"	2754	483452	483514					
08/31/98	T-47	EMPTY	0	483494	483504					
11/09/98	T-44	19"	5256	483560	483487					Filled tractor fuel tank on 9/16/98, 10/2/98, 10/31/98, 11/9/98, 12/10/98,
08/31/98	T-36	EMPTY	0	483569	483528	483589				^cont. 03/18/99, 05/11/99 Emptied 5/11/01
09/01/98	B-1	6"	16638	483530	483585					
09/01/98	B-2	24"	15576	483557	483595					
09/01/98	B-3	EMPTY	0	483548	483458					
09/01/98	B-4	10"	16402	483509	483436					
09/01/98	G-2	154"	32144	483493	483562	483463	483510	483450	483437	483533

Date: 06/06/2001

**Resource Recovery Group, LLC**  
**Weekly Tank Inventory Report**

DATE SEALED	TANK #	OUTAGE MEASURED	VOLUME	SEAL 1	SEAL 2	SEAL 3	SEAL 4	SEAL 5	SEAL 6	SEAL 7	COMMENTS
09/01/98	G-3	72"	241200	483486							
09/01/98	G-4	131"	69823	483518	483454						
09/01/98	G-5	318.5"	169760	483577							
09/01/98	G-6	60"	19116	483548							
09/01/98	G-7	72"	18408	483525							
09/01/98	G-8	30"	20886	483408							
09/01/98	G-9	97"	16933	483456							
09/01/98	G-10	21"	21535	483579							
09/01/98	G-11	EMPTY	0	483411							All contents (23,452 gallons) transferred to G-5 to mitigate leak on 9/1/98.
		<b>TOTAL</b>	<b>843224</b>								

Date: 06/07/2001

*samples taken*

**Resource Recovery Group, LLC**  
**Weekly Drum Dock Inventory Report**

GENERATOR	PDS NO.	BAY NO.	DESCRIPTION	COMMENTS
RRG/CCC Inventory	NA	1	Asphalt Sealer	
RRG/CCC Inventory	NA	1	Asphalt Sealer	
RRG/CCC Inventory	NA	1	Asphalt Sealer	<i>0 Ato samples</i>
Owens	1897B	13	Caustic	
Owens	1897B	13	Caustic	
Owens	1897A	13	Caustic	
Owens	1897A	13	Caustic	<i>1 sample</i>
Komatsu	2160C	13	Caustic Solids	
Komatsu	2160C	13	Caustic Solids	
ADM Packaging	1571A	13	Corrosive	
Nascote	2243A	13	Corrosive	<i>0 samples</i>
Wagoner	1783A	13	Corrosive	
Overnite	2082A	13	Corrosive Solids	
RRG Internal	INTERNAL	4	haz liquid from samples	<i>1 sample</i>
Bazan	2248	5	Haz Solids	
ADM Bio	2148A	6	Haz Solids	
Bazan	2248	6	Haz Solids	
RRG Internal	INTERNAL	6	Haz Solids	
RRG Internal	INTERNAL	6	Haz Solids	
RRG Internal	INTERNAL	6	Haz Solids	
RRG Internal	INTERNAL	4	haz solids/sample containers	
RRG Internal	INTERNAL	4	haz solids/sample containers	
ADM Bio	2184A	7	Hazardous Semi Solids	
Nascote	2242A	1	Hazardous solids	
Nascote	2242A	3	Hazardous solids	<i>4 samples</i>
ADM Corn Sweeteners	2238A	1	Hazardous Solids	
ADM Corn Sweeteners	2238A	1	Hazardous Solids	
ADM Vitamin E	2235	1	Hazardous solids	
ADM Vitamin E	2235	1	Hazardous solids	
Republic	2219A	1	Hazardous solids	
Republic	2219A	1	Hazardous solids	
RPS	2231A	2	Hazardous Solids	
ADM Corn Sweeteners	2174A	3	Hazardous Solids	
Komatsu	2220B	3	Hazardous Solids	
Komatsu	2220B	3	Hazardous solids	
Chemetco	2191A	6	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	

Date: 06/07/2001

**Resource Recovery Group, LLC**  
**Weekly Drum Dock Inventory Report**

GENERATOR	PDS NO.	BAY NO.	DESCRIPTION	COMMENTS
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
Nascote	2242A	13	Hazardous Solids	
ADM Fabrication	1367A	13	Hydrochloric Acid	0 samples
ADM Fabrication	1367C	13	Hydrochloric Acid	
Scientific Associates	2072C	13	Lab Pack Hg	0 samples
RRG Internal	INTERNAL	6	Line Flush for reclaim	
RRG Internal	NA	1	Line Flush for Reclaim Perc	
Parkway School	2251A	6	Liquid Fuel	1 sample
Republic	1024A	1	Liquid Fuel Water w/ Ag/CN	1 sample
Republic	1024A	1	Liquid Fuel Water w/ Ag/CN	
Republic	1024A	2	Liquid Fuel Water w/ Ag/CN	
National Graphics	2031A	13	Methylethanolamine	0 samples
National Graphics	2031A	13	Methylethanolamine	

Date: 06/07/2001

**Resource Recovery Group, LLC**  
**Weekly Drum Dock Inventory Report**

GENERATOR	PDS NO.	BAY NO.	DESCRIPTION	COMMENTS
Builder's Square	2206A	13	Muriatic Acid	0 sample 1 sample
Illinois Engraving	1303A	13	Nitric Acid	
Illinois Engraving	1787A	13	Nitric Acid	
National Graphics	2032B	13	Nitric Acid	
ADM Fabrication	1367A	13	Nitric Acid/Sulfuric Acid O/P	0 sample
ADM Fabrication	1367A	13	Nitric/Sulfuric Acid	
EnviroVac	1199A	4	Non Haz Ethylene Glycol	0 sample
CIPS	1114A	13	Non Haz Ethylene Glycol	
CIPS	1114A	13	Non Haz Ethylene Glycol	
CIPS	1114A	13	Non Haz Ethylene Glycol	
CIPS	1114A	13	Non Haz Ethylene Glycol	
CIPS	1114A	13	Non Haz Ethylene Glycol	
CIPS	1114A	13	Non Haz Ethylene Glycol	
CIPS	1114A	13	Non Haz Ethylene Glycol	
CIPS	1114A	13	Non Haz Ethylene Glycol	
CIPS	1114A	13	Non Haz Ethylene Glycol	
CIPS	1114A	13	Non Haz Ethylene Glycol	
Northrop	1207A	13	Non Haz Ethylene Glycol	
ADM Corn Sweeteners	1874C	2	Non Haz Semi-solids	
ADM Corn Sweeteners	1874C	2	Non Haz Semi-solids	
ADM Corn Sweeteners	1874C	2	Non Haz Semi-solids	
ADM Corn Sweeteners	1874C	2	Non Haz Semi-solids	
ADM Corn Sweeteners	1874C	2	Non Haz Semi-solids	
ADM Corn Sweeteners	1619A	3	Non Haz Solids	
ADM Mechanical	1669D	4	Non Haz solids	
Nascote	2243C	7	Non Haz Solids	
Sligo	1784A	7	Non Haz Solids	
National Graphics	2033D	3	Nonhaz solids	
National Graphics	2033	7	Nonhaz solids	
National Graphics	2033	7	Nonhaz solids	
ADM East	2040A	1	Nonhazardous Solids	
ADM Fabrication	1370A	2	Oxidizing solid	0 sample
ADM Fabrication	1370A	13	Oxidizing Solid	
RRG Internal	INTERNAL	6	Perc Solids from reclaim/consol.	
RRG Internal	INTERNAL	6	Perc Solids from reclaim/consol.	
RRG Internal	INTERNAL	6	Perc Solids from reclaim/consol.	
RRG Internal	INTERNAL	6	Perc Solids from reclaim/consol.	
RRG Internal	INTERNAL	6	Perc Solids from reclaim/consol.	
RRG Internal	INTERNAL	6	Perc Solids from reclaim/consol.	

*Date:* 06/07/2001

*Resource Recovery Group, LLC*  
*Weekly Drum Dock Inventory Report*

## **APPENDIX E**

ROY F. WESTON, INC.  
501 JOLLY ROAD, SUITE 100  
KEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SB-013-01  
LAB ID: 9912006102-008  
DATE COLLECTED: 06/05/01 16:23  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	5.17 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	67.5 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	4.20 B mg/Kg	
TOTAL LEAD	SW-846 6010A	7.86 B mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.100 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	46.6 mg/Kg	06/11/01 M.P
PH	SW-846 9045	7.110	06/07/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-01

LAB ID: 9912/6102-008

PARENT ORDER NUMBER: 175079

QUANT FACTOR : 696.18

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT <u>ug/Kg</u>	RESULTS <u>ug/Kg</u> (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	3481	U
74-87-3	Chloromethane	6962	U
75-01-4	Vinyl chloride	3481	U
74-83-9	Bromomethane	3481	U
75-00-3	Chloroethane	3481	U
75-69-04	Trichlorofluoromethane	3481	U
75-35-4	1,1-Dichloroethene	3481	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3481	U
67-64-1	Acetone	13924	U
108-05-4	Vinyl Acetate	6962	U
74-88-4	Methyl Iodide	3481	U
75-15-0	Carbon disulfide	6962	U
107-05-1	Allyl Chloride	3481	U
75-05-8	Acetonitrile	6962	U
75-09-2	Methylene chloride	13924	4800J
107-13-1	Acrylonitrile	6962	U
1634-04-4	Methyl tert butyl ether	6962	U
156-60-5	trans-1,2-Dichloroethene	3481	U
75-34-3	1,1-Dichloroethane	3481	4000
107-02-8	Acrolein	6962	U
156-59-2	cis-1,2-Dichloroethene	3481	36000
78-93-3	2-Butanone (MEK)	3481	U
594-20-7	2,2-Dichloropropane	3481	U
107-12-0	Propionitrile	3481	U
126-98-7	Methacrylonitrile	3481	U
74-97-5	Bromoform	3481	U
67-66-3	Chloroform	3481	U
71-55-6	1,1,1-Trichloroethane	3481	43000
563-58-6	1,1-Dichloropropene	3481	U
56-23-5	Carbon tetrachloride	3481	U
107-06-2	1,2-Dichloroethane	3481	U
71-43-2	Benzene	3481	4400
79-01-6	Trichloroethene	3481	19000
78-87-5	1,2-Dichloropropane	3481	U
80-62-6	Methyl Methacrylate	3481	U
123-91-1	1,4-Dioxane	3481	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-01  
LAB ID: 9912/6102-008  
PARENT ORDER NUMBER: 175079

QUANT FACTOR : 0.00

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>µg/Kg</u>	RESULTS <u>µg/Kg</u> (Dry Weight Basis)	
		U	U
74-95-3	3481		U
78-83-1	6962		U
75-27-4	3481		U
10061-02-6	3481		U
108-10-1	6962		U
76-46-9	6962		U
108-88-3	3481	72000	
10061-01-5	3481		U
97-63-2	3481		U
79-00-5	3481		U
127-18-4	3481	12000	
142-28-9	3481		U
591-78-6	6962		U
124-48-1	3481		U
106-93-4	3481		U
108-90-7	3481	3000J	
630-20-6	3481		U
100-41-4	3481	12000	
108-38-3	3481	49000	
95-47-6	3481	14000	
100-42-5	3481		U
75-25-2	3481		U
98-82-8	3481		U
79-34-5	3481		U
108-86-1	3481		U
110-57-6	3481		U
96-18-4	3481		U
103-65-1	3481		U
95-49-8	3481		U
108-67-8	3481	1800J	
106-43-4	3481		U
98-06-6	3481		U
95-63-6	3481	5300	
135-98-8	3481		U
541-73-1	3481		U
99-87-6	3481		U
106-46-7	3481	3400J	

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-01

LAB ID: 9912/6102-008

PARENT ORDER NUMBER: 175079

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION

LIMIT  
ug/Kg

RESULTS  
ug/Kg  
(Dry Weight Basis)

CAS NUMBER

<u>CAS NUMBER</u>		<u>RESULTS</u> <u>ug/Kg</u> (Dry Weight Basis)
95-50-1	1,2-Dichlorobenzene	3481 2600J
104-51-8	n-Butylbenzene	3481 U
96-12-8	1,2-Dibromo-3-chloropropane	3481 U
120-82-1	1,2,4-Trichlorobenzene	3481 U
87-68-3	Hexachlorobutadiene	6962 U
91-20-3	Naphthalene	6962 3000J
87-61-6	1,2,3-Trichlorobenzene	3481 U
110-75-8	2-Chloroethyl vinyl ether	6962 U

SURROGATE RECOVERY RESULTS

% RECOVERY

460-00-4	4-Bromofluorobenzene	99
17060-07-0	1,2-Dichloroethane-d4	97
2037-26-5	Toluene-d8	99

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 16:23  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SB-013-01  
LAB ID: 9912/6102-008  
PARENT ORDER NUMBER: 175080

QUANT FACTOR : 464.12

CAS NUMBER	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)
110-86-1	997.87	U
62-75-9	724.03	U
62-53-3	1048.92	U
111-44-4	422.35	U
95-57-8	515.18	U
108-95-2	389.86	U
541-73-1	538.38	U
106-46-7	519.82	1400
95-50-1	491.97	1500
100-51-6	357.37	U
108-60-1	645.13	U
95-48-7	580.15	U
67-72-1	510.54	U
621-64-7	491.97	U
106-44-5	608.00	.660
98-95-3	389.86	U
78-59-1	413.07	U
88-75-5	473.41	U
105-67-9	1188.16	U
111-91-1	385.22	U
120-83-2	375.94	U
120-82-1	468.76	3100
91-20-3	454.84	3600
65-85-0	863.27	U
106-47-8	306.32	U
87-68-3	533.74	U
91-57-6	394.50	490
59-50-7	464.12	U
77-47-4	649.77	U
88-06-2	696.18	U
95-95-4	1248.49	U
91-58-7	436.28	U
88-74-4	329.53	U
208-96-8	283.12	U
131-11-3	394.50	U
606-20-2	450.20	U
83-32-9	283.12	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SB-013-01  
LAB ID: 9912/6102-008  
PARENT ORDER NUMBER: 175080

QUANT FACTOR : 0.00

CAS NUMBER	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)
99-09-2	3-Nitroaniline	496.61 U
51-28-5	2,4-Dinitrophenol	450.20 U
132-64-9	Dibenzofuran	473.41 U
121-14-2	2,4-Dinitrotoluene	380.58 U
100-02-7	4-Nitrophenol	942.17 U
86-73-7	Fluorene	338.81 U
7005-72-3	4-Chlorophenyl phenyl ether	315.60 U
84-66-2	Diethyl phthalate	375.94 U
100-01-6	4-Nitroaniline	389.86 U
534-52-1	4,6-Dinitro-2-methylphenol	761.16 U
86-30-6	N-Nitrosodiphenylamine	445.56 U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	329.53 U
101-55-3	4-Bromophenyl phenyl ether	334.17 U
118-74-1	Hexachlorobenzene	320.25 U
1912-24-9	Atrazine	1392.37 U
87-86-5	Pentachlorophenol	756.52 U
85-01-8	Phenanthrene	269.19 U
120-12-7	Anthracene	352.73 U
86-74-8	Carbazole	413.07 U
15972-60-8	Alachlor	1392.37 U
84-74-2	Di-n-butyl phthalate	594.08 U
206-44-0	Fluoranthene	297.04 U
92-87-5	Benzidine	4641.23 U
129-00-0	Pyrene	362.02 U
85-68-7	Butyl benzyl phthalate	185.65 U
56-55-3	Benz(a)anthracene	320.25 U
218-01-9	Chrysene	408.43 U
91-94-1	3,3'-Dichlorobenzidine	561.59 U
117-81-7	Bis(2-ethylhexyl)phthalate	594.08 5500
117-84-0	Di-n-octyl phthalate	352.73 U
205-99-2	Benzo(b)fluoranthene	659.06 U
207-08-9	Benzo(k)fluoranthene	751.88 U
50-32-8	Benzo(a)pyrene	301.68 U
193-39-5	Indeno(1,2,3-cd)pyrene	375.94 U
53-70-3	Dibenz(a,h)anthracene	259.91 U
191-24-2	Benzo(g,h,i)perylene	394.50 U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SB-013-01

LAB ID: 9912/6102-008

PARENT ORDER NUMBER: 175080

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)	<u>% RECOVERY</u>

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
321-60-8	2-Fluorobiphenyl	123
367-12-4	2-Fluorophenol	76
4165-60-0	Nitrobenzene-d5	96
4165-62-2	Phenol-d5	92
1718-51-0	p-Terphenyl-d14	111
118-79-6	2,4,6-Tribromophenol	66

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/05/01 16:23  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-01

LAB ID: 9912/6102-008

PARENT ORDER NUMBER: 175080

QUANT FACTOR : 0.00

## PRACTICAL QUANTITATION

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u>
12674-11-2	A-1016	928	788J
1104-28-2	A-1221	928	U
11141-16-5	A-1232	928	U
53469-21-9	A-1242	928	U
12672-29-6	A-1248	928	U
11097-69-1	A-1254	928	U
11096-82-5	A-1260	928	984

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	0
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 16:23  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
201 JOLLY ROAD, SUITE 100  
CEROS, MI 48864

ATTN: LINDA KOROBKA

PHONE: 54369

FAX: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SB-013-02  
AB ID: 9912006102-009  
DATE COLLECTED: 06/05/01 16:45  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	4.37 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	70.8 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	5.64 B mg/Kg	
TOTAL LEAD	SW-846 6010A	8.70 B mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.100 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	<5 mg/Kg	06/11/01 M.P
PH	SW-846 9045	7.100	06/08/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMENTAL METRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-02  
LAB ID: 9912/6102-009  
PARENT ORDER NUMBER: 175081

CAS NUMBER	PRACTICAL QUANTITATION	LIMIT	RESULTS
		µg/Kg	µg/Kg (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	6.5	U
74-87-3	Chloromethane	13.0	U
75-01-4	Vinyl chloride	2.6	U
74-83-9	Bromomethane	13.0	U
75-00-3	Chloroethane	13.0	U
75-69-04	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
67-64-1	Acetone	65.0	247 B
108-05-4	Vinyl Acetate	65.0	U
74-88-4	Methyl Iodide	13.0	U
75-15-0	Carbon disulfide	6.5	6.6
107-05-1	Allyl Chloride	6.5	U
75-05-8	Acetonitrile	6.5	U
75-09-2	Methylene chloride	6.5	15.4
107-13-1	Acrylonitrile	6.5	U
1634-04-4	Methyl tert butyl ether	2.6	U
156-60-5	trans-1,2-Dichloroethene	6.5	U
75-34-3	1,1-Dichloroethane	6.5	12.9
107-02-8	Acrolein	130	U
156-59-2	cis-1,2-Dichloroethene	6.5	134
78-93-3	2-Butanone (MEK)	65.0	84.7
594-20-7	2,2-Dichloropropane	6.5	U
107-12-0	Propionitrile	6.5	U
126-98-7	Methacrylonitrile	65.0	U
74-97-5	Bromoform	6.5	U
67-66-3	Chloroform	6.5	U
71-55-6	1,1,1-Trichloroethane	6.5	87.7
563-58-6	1,1-Dichloropropene	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	2.6	16.8
79-01-6	Trichloroethene	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
80-62-6	Methyl Methacrylate	13.0	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL.  
METHOD 8260IX  
PAGE TWO

SAMPLE ID: SB-013-02  
LAB ID: 9912/6102-009  
PARENT ORDER NUMBER: 175081

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT μg/Kg	RESULTS μg/Kg (Dry Weight Basis)
123-91-1	1,4-Dioxane	6.5	0
74-95-3	Dibromomethane	6.5	0
78-83-1	Isobutyl Alcohol	6.5	0
75-27-4	Bromodichloromethane	6.5	0
10061-02-6	trans-1,3-Dichloropropene	5.2	0
108-10-1	4-Methyl-2-pentanone	65.0	0
76-46-9	2-Nitropropane	65.0	0
108-88-3	Toluene	6.5	732
10061-01-5	cis-1,3-Dichloropropene	5.2	0
97-63-2	Ethyl Methacrylate	6.5	0
79-00-5	1,1,2-Trichloroethane	6.5	0
127-18-4	Tetrachloroethene	6.5	14.5
142-28-9	1,3-Dichloropropane	6.5	0
591-78-6	2-Hexanone	65.0	0
124-48-1	Chlorodibromomethane	13.0	0
106-93-4	1,2-Dibromoethane	6.5	0
108-90-7	Chlorobenzene	6.5	29.4
630-20-6	1,1,1,2-Tetrachloroethane	6.5	0
100-41-4	Ethylbenzene	6.5	257
108-38-3	m,p-Xylene	69.2	2740
95-47-6	o-Xylene	6.5	1050
100-42-5	Styrene	6.5	0
75-25-2	Bromoform	6.5	0
98-82-8	Isopropylbenzene	6.5	12.9
79-34-5	1,1,2,2-Tetrachloroethane	6.5	0
108-86-1	Bromobenzene	6.5	0
110-57-6	trans-1,4-Dichloro-2-butene	6.5	0
96-18-4	1,2,3-Trichloropropane	13.0	0
103-65-1	n-Propylbenzene	6.5	23.7
95-49-8	2-Chlorotoluene	6.5	0
108-67-8	1,3,5-Trimethylbenzene	6.5	88.8
106-43-4	4-Chlorotoluene	6.5	0
98-06-6	t-Butylbenzene	6.5	6.8
95-63-6	1,2,4-Trimethylbenzene	6.5	247
135-98-8	sec-Butylbenzene	6.5	191
541-73-1	1,3-Dichlorobenzene	6.5	0

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-02  
LAB ID: 9912/6102-009  
PARENT ORDER NUMBER: 175081

CAS NUMBER		PRACTICAL QUANTITATION		RESULTS µg/Kg (Dry Weight Basis)
		LIMIT µg/Kg		
99-87-6	p-Isopropyltoluene	6.5		U
106-46-7	1,4-Dichlorobenzene	6.5		34.5
95-50-1	1,2-Dichlorobenzene	6.5		33.6
104-51-8	n-Butylbenzene	6.5		8.5
96-12-8	1,2-Dibromo-3-chloropropane	6.5		U
120-82-1	1,2,4-Trichlorobenzene	6.5		8.1
87-68-3	Hexachlorobutadiene	6.5		U
91-20-3	Naphthalene	13.0		235
87-61-6	1,2,3-Trichlorobenzene	6.5		U
110-75-8	2-Chloroethyl vinyl ether	6.5		U

SURROGATE RECOVERY RESULTS

	% RECOVERY
1,2-Dichloroethane-d4	129
4-Bromofluorobenzene	109
Dibromofluoromethane	110
Toluene-d8	101

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: T.L.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE One

SAMPLE ID: SB-013-02

LAB ID: 9912/6102-009

PARENT ORDER NUMBER: 175081

QUANT FACTOR :

454.94

CAS NUMBER	COMPOUND NAME	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)	
			U	U
110-86-1	Pyridine	978.12		
62-75-9	n-Nitrosodimethylamine	709.70		
62-53-3	Aniline	1028.16		
111-44-4	Bis(2-chloroethyl)ether	413.99		
95-57-8	2-Chlorophenol	504.98		
108-95-2	Phenol	382.15		
541-73-1	1,3-Dichlorobenzene	527.73		
106-46-7	1,4-Dichlorobenzene	509.53		
95-50-1	1,2-Dichlorobenzene	482.23		
100-51-6	Benzyl alcohol	350.30		
108-60-1	2,2-oxybis(1-Chloropropane)	632.36		
95-48-7	2-Methylphenol	568.67		
67-72-1	Hexachloroethane	500.43		
621-64-7	N-Nitrosodi-n-propylamine	482.23		
106-44-5	4-Methylphenol	595.97		
98-95-3	Nitrobenzene	382.15		
78-59-1	Isophorone	404.90		
88-75-5	2-Nitrophenol	464.04		
105-67-9	2,4-Dimethylphenol	1164.64		
111-91-1	Bis(2-chloroethoxy)methane	377.60		
120-83-2	2,4-Dichlorophenol	368.50		
120-82-1	1,2,4-Trichlorobenzene	459.49		
91-20-3	Naphthalene	445.84		1400
65-85-0	Benzoic acid	846.19		
106-47-8	4-Chloraniline	300.26		
87-68-3	Hexachlorobutadiene	523.18		
91-57-6	2-Methylnaphthalene	386.70		
59-50-7	4-Chloro-3-methylphenol	454.94		
77-47-4	Hexachlorocyclopentadiene	636.91		
88-06-2	2,4,6-Trichlorophenol	682.41		
95-95-4	2,4,5-Trichlorophenol	1223.78		
91-58-7	2-Chloronaphthalene	427.64		
88-74-4	2-Nitroaniline	323.01		
208-96-8	Acenaphthylene	277.51		
131-11-3	Dimethyl phthalate	386.70		
606-20-2	2,6-Dinitrotoluene	441.29		
83-32-9	Acenaphthene	277.51		

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Two

SAMPLE ID: SB-013-02

LAB ID: 9912/6102-009

PARENT ORDER NUMBER: 175081

QUANT FACTOR :

0.00

CAS NUMBER	METHOD DETECTION	RESULTS	
		LIMIT mg/KG	mg/KG (Dry Weight Basis)
99-09-2	3-Nitroaniline	486.78	U
51-28-5	2,4-Dinitrophenol	441.29	U
132-64-9	Dibenzofuran	464.04	U
121-14-2	2,4-Dinitrotoluene	373.05	U
100-02-7	4-Nitrophenol	923.52	U
86-73-7	Fluorene	332.10	U
7005-72-3	4-Chlorophenyl phenyl ether	309.36	U
84-66-2	Diethyl phthalate	368.50	U
100-01-6	4-Nitroaniline	382.15	U
534-52-1	4,6-Dinitro-2-methylphenol	746.10	U
86-30-6	N-Nitrosodiphenylamine	436.74	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	323.01	U
101-55-3	4-Bromophenyl phenyl ether	327.56	U
118-74-1	Hexachlorobenzene	313.91	U
1912-24-9	Atrazine	1364.82	U
87-86-5	Pentachlorophenol	741.55	U
85-01-8	Phenanthrene	263.86	U
120-12-7	Anthracene	345.75	U
86-74-8	Carbazole	404.90	U
15972-60-8	Alachlor	1364.82	U
84-74-2	Di-n-butyl phthalate	582.32	U
206-44-0	Fluoranthene	291.16	U
92-87-5	Benzidine	4549.38	U
129-00-0	Pyrene	354.85	U
85-68-7	Butyl benzyl phthalate	181.98	U
56-55-3	Benz(a)anthracene	313.91	U
218-01-9	Chrysene	400.35	U
91-94-1	3,3'-Dichlorobenzidine	550.48	U
117-81-7	Bis(2-ethylhexyl)phthalate	582.32	U
117-84-0	Di-n-octyl phthalate	345.75	U
205-99-2	Benzo(b)fluoranthene	646.01	U
207-08-9	Benzo(k)fluoranthene	737.00	U
50-32-8	Benzo(a)pyrene	295.71	U
193-39-5	Iodo(1,2,3-cd)pyrene	368.50	U
53-70-3	Dibenz(a,h)anthracene	254.77	U
191-24-2	Benzo(g,h,i)perylene	386.70	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SB-013-02

LAB ID: 9912/6102-009

PARENT ORDER NUMBER: 175081

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	METHOD DETECTION LIMIT <u>ug/KG</u>	RESULTS <u>ug/KG</u> (Dry Weight Basis)	% RECOVERY

## SURROGATE RECOVERY RESULTS

321-60-8	2-Fluorobiphenyl
367-12-4	2-Fluorophenol
4165-60-0	Nitrobenzene-d5
4165-62-2	Phenol-d5
1718-51-0	p-Terphenyl-d14
118-79-6	2,4,6-Tribromophenol

113  
74  
82  
82  
108  
61

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/05/01 16:45  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-02

LAB ID: 9912/6102-009

PARENT ORDER NUMBER: 175081

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u>		<u>RESULTS</u> <u>µg/KG</u>
		<u>µg/KG</u>	<u>µg/KG</u>	
12674-11-2	A-1016	45	45	U
1104-28-2	A-1221	45	45	U
11141-16-5	A-1232	45	45	U
53469-21-9	A-1242	45	45	U
12672-29-6	A-1248	45	45	U
11097-69-1	A-1254	45	45	U
11096-82-5	A-1260	45	45	U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	115
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	91

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 16:45  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
CEMOS, MI 48864

ATTN: LINDA KOROBKA

JVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## ANALYSIS RESULTS

SAMPLE ID: SB-013-03  
AB ID: 9912006102-010  
DATE COLLECTED: 06/05/01 18:15  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	34.9 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	124 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	80.4 mg/Kg	
TOTAL LEAD	SW-846 6010A	421 mg/Kg	
TOTAL MERCURY	SW-846 7471A	1.30 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	54,900 mg/Kg	06/11/01 M.P
PH	SW-846 9045	7.420	06/07/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-03  
LAB ID: 9912/6102-010  
PARENT ORDER NUMBER: 175083

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION	QUANT FACTOR :	RESULTS <u>ug/Kg</u> (Dry Weight Basis)
		LIMIT <u>ug/Kg</u>	
75-71-8	Dichlorodifluoromethane	33634	U
74-87-3	Chloromethane	67268	U
75-01-4	Vinyl chloride	33634	U
74-83-9	Bromomethane	33634	U
75-00-3	Chloroethane	33634	U
75-69-04	Trichlorofluoromethane	33634	U
75-35-4	1,1-Dichloroethene	33634	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	33634	46000
67-64-1	Acetone	134535	U
108-05-4	Vinyl Acetate	67268	U
74-88-4	Methyl Iodide	33634	U
75-15-0	Carbon disulfide	67268	U
107-05-1	Allyl Chloride	33634	U
75-05-8	Acetonitrile	67268	U
75-09-2	Methylene chloride	134535	40000J
107-13-1	Acrylonitrile	67268	U
1634-04-4	Methyl tert butyl ether	67268	U
156-60-5	trans-1,2-Dichloroethene	33634	U
75-34-3	1,1-Dichloroethane	33634	29000J
107-02-8	Acrolein	67268	U
156-59-2	cis-1,2-Dichloroethene	33634	300000
78-93-3	2-Butanone (MEK)	33634	U
594-20-7	2,2-Dichloropropane	33634	U
107-12-0	Propionitrile	33634	U
126-98-7	Methacrylonitrile	33634	U
74-97-5	Bromochloromethane	33634	U
67-66-3	Chloroform	33634	U
71-55-6	1,1,1-Trichloroethane	33634	U
563-58-6	1,1-Dichloropropene	33634	U
56-23-5	Carbon tetrachloride	33634	U
107-06-2	1,2-Dichloroethane	33634	U
71-43-2	Benzene	33634	150000
79-01-6	Trichloroethene	33634	30000J
78-87-5	1,2-Dichloropropane	33634	U
80-62-6	Methyl Methacrylate	33634	U
123-91-1	1,4-Dioxane	33634	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-03  
LAB ID: 9912/6102-010  
PARENT ORDER NUMBER: 175083

CAS NUMBER	NAME	QUANT. FACTOR :	0.00	RESULTS <u>ug/Kg</u> (Dry Weight Basis)
			PRACTICAL QUANTITATION LIMIT <u>ug/Kg</u>	
74-95-3	Dibromomethane	33634		U
78-83-1	Isobutyl Alcohol	67268		U
75-27-4	Bromodichloromethane	33634		U
10061-02-6	trans-1,3-Dichloropropene	33634		U
108-10-1	4-Methyl-2-pentanone	67268	23000J	
76-46-9	2-Nitropropane	67268		U
108-88-3	Toluene	33634	740000	
10061-01-5	cis-1,3-Dichloropropene	33634		U
97-63-2	Ethyl Methacrylate	33634		U
79-00-5	1,1,2-Trichloroethane	33634		U
127-18-4	Tetrachloroethene	33634	36000	
142-28-9	1,3-Dichloropropane	33634		U
591-78-6	2-Hexanone	67268		U
124-48-1	Chlorodibromomethane	33634		U
106-93-4	1,2-Dibromoethane	33634		U
108-90-7	Chlorobenzene	33634	290000	
630-20-6	1,1,1,2-Tetrachloroethane	33634		U
100-41-4	Ethylbenzene	33634	95000	
108-38-3	m&p-Xylene	33634	470000	
95-47-6	o-Xylene	33634	130000	
100-42-5	Styrene	33634		U
75-25-2	Bromoform	33634		U
98-82-8	Isopropylbenzene	33634		U
79-34-5	1,1,2-Tetrachloroethane	33634		U
108-86-1	Bromobenzene	33634		U
110-57-6	trans-1,4-Dichloro-2-butene	33634		U
96-18-4	1,2,3-Trichloropropane	33634		U
103-65-1	n-Propylbenzene	33634	15000J	
95-49-8	2-Chlorotoluene	33634		U
108-67-8	1,3,5-Trimethylbenzene	33634	32000J	
106-43-4	4-Chlorotoluene	33634		U
98-06-6	t-Butylbenzene	33634	17000J	
95-63-6	1,2,4-Trimethylbenzene	33634	83000	
135-98-8	sec-Butylbenzene	33634		U
541-73-1	1,3-Dichlorobenzene	33634		U
99-87-6	p-Isopropyltoluene	33634		U
106-46-7	1,4-Dichlorobenzene	33634	440000	

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-03

LAB ID: 9912/6102-010

PARENT ORDER NUMBER: 175083

QUANT FACTOR : 0.00

### PRACTICAL QUANTITATION

#### LIMIT

ug/Kg

#### RESULTS

ug/Kg

(Dry Weight Basis)

CAS NUMBER			
95-50-1	1,2-Dichlorobenzene	33634	210000
104-51-8	n-Butylbenzene	33634	U
96-12-8	1,2-Dibromo-3-chloropropane	33634	U
120-82-1	1,2,4-Trichlorobenzene	33634	U
87-68-3	Hexachlorobutadiene	67268	U
91-20-3	Naphthalene	67268	43000J
87-61-6	1,2,3-Trichlorobenzene	33634	U
110-75-8	2-Chloroethyl vinyl ether	67268	U

### SURROGATE RECOVERY RESULTS

#### % RECOVERY

98

102

98

460-00-4 4-Bromofluorobenzene

17060-07-0 1,2-Dichloroethane-d4

2037-26-5 Toluene-d8

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 18:15

DATE RECEIVED: 06/06/01

DATE ANALYZED: 06/19/01

ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
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Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SB-013-03

LAB ID: 9912/6102-010

PARENT ORDER NUMBER: 175082

QUANT FACTOR : 4484.51

CAS NUMBER

		METHOD DETECTION	RESULTS
		LIMIT <u>µg/KG</u>	<u>µg/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	9641.69	U
62-75-9	n-Nitrosodimethylamine	6995.83	U
62-53-3	Aniline	10134.98	U
111-44-4	Bis(2-chloroethyl)ether	4080.90	U
95-57-8	2-Chlorophenol	4977.80	U
108-95-2	Phenol	3766.99	U
541-73-1	1,3-Dichlorobenzene	5202.03	11000
106-46-7	1,4-Dichlorobenzene	5022.65	560000
95-50-1	1,2-Dichlorobenzene	4753.58	370000
100-51-6	Benzyl alcohol	3453.07	U
108-60-1	2,2-oxybis(1-Chloropropane)	6233.46	U
95-48-7	2-Methylphenol	5605.63	U
67-72-1	Hexachloroethane	4932.96	U
621-64-7	N-Nitrosodi-n-propylamine	4753.58	U
106-44-5	4-Methylphenol	5874.70	11000
98-95-3	Nitrobenzene	3766.99	U
78-59-1	Isophorone	3991.21	10000
88-75-5	2-Nitrophenol	4574.20	U
105-67-9	2,4-Dimethylphenol	11480.34	U
111-91-1	Bis(2-chloroethoxy)methane	3722.14	U
120-83-2	2,4-Dichlorophenol	3632.45	U
120-82-1	1,2,4-Trichlorobenzene	4529.35	17000
91-20-3	Naphthalene	4394.82	100000
65-85-0	Benzoic acid	8341.18	U
106-47-8	4-Chloroaniline	2959.77	U
87-68-3	Hexachlorobutadiene	5157.18	U
91-57-6	2-Methylnaphthalene	3811.83	83000
59-50-7	4-Chloro-3-methylphenol	4484.51	U
77-47-4	Hexachlorocyclopentadiene	6278.31	U
88-06-2	2,4,6-Trichlorophenol	6726.76	U
95-95-4	2,4,5-Trichlorophenol	12063.32	U
91-58-7	2-Chloronaphthalene	4215.44	U
88-74-4	2-Nitroaniline	3184.00	U
208-96-8	Acenaphthylene	2735.55	U
131-11-3	Dimethyl phthalate	3811.83	U
606-20-2	2,6-Dinitrotoluene	4349.97	U
83-32-9	Acenaphthene	2735.55	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Two

SAMPLE ID: SB-013-03

LAB ID: 9912/6102-010

PARENT ORDER NUMBER: 175082

### CAS NUMBER

99-09-2      3-Nitroaniline  
51-28-5      2,4-Dinitrophenol  
132-64-9      Dibenzofuran  
121-14-2      2,4-Dinitrotoluene  
100-02-7      4-Nitrophenol  
86-73-7      Fluorene  
7005-72-3      4-Chlorophenyl phenyl ether  
84-66-2      Diethyl phthalate  
100-01-6      4-Nitroaniline  
534-52-1      4,6-Dinitro-2-methylphenol  
86-30-6      N-Nitrosodiphenylamine  
103-33-3      Azobenzene (1,2-Diphenylhydrazine)  
101-55-3      4-Bromophenyl phenyl ether  
118-74-1      Hexachlorobenzene  
1912-24-9      Atrazine  
87-86-5      Pentachlorophenol  
85-01-8      Phenanthrene  
120-12-7      Anthracene  
86-74-8      Carbazole  
15972-60-8      Alachlor  
84-74-2      Di-n-butyl phthalate  
206-44-0      Fluoranthene  
92-87-5      Benzidine  
129-00-0      Pyrene  
85-68-7      Butyl benzyl phthalate  
56-55-3      Benz(a)anthracene  
218-01-9      Chrysene  
91-94-1      3,3'-Dichlorobenzidine  
117-81-7      Bis(2-ethylhexyl)phthalate  
117-84-0      Di-n-octyl phthalate  
205-99-2      Benzo(b)fluoranthene  
207-08-9      Benzo(k)fluoranthene  
50-32-8      Benzo(a)pyrene  
193-39-5      Ideno(1,2,3-cd)pyrene  
53-70-3      Dibenz(a,h)anthracene  
191-24-2      Benzo(g,h,i)perylene

QUANT FACTOR :

0.00

### METHOD DETECTION LIMIT

ug/KG

RESULTS  
ug/KG

(Dry Weight Basis)

4798.42      U  
4349.97      U  
4574.20      7500  
3677.29      U  
9103.55      U  
3273.69      20000  
3049.46      U  
3632.45      U  
3766.99      U  
7354.59      U  
4305.13      U  
3184.00      U  
3228.84      U  
3094.31      U  
13453.52      U  
7309.74      16000  
2601.01      77000  
3408.22      7900  
3991.21      U  
13453.52      U  
5740.17      200000  
2870.08      7700  
44845.06      U  
3497.91      28000  
1793.80      67000  
3094.31      6900  
3946.37      15000  
5426.25      U  
5740.17      490000  
3408.22      U  
6368.00      U  
7264.90      U  
2914.93      3900  
3632.45      U  
2511.32      U  
3811.83      U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Three

SAMPLE ID: SB-013-03

LAB ID: 9912/6102-010

PARENT ORDER NUMBER: 175082

QUANT FACTOR : 0.00

METHOD DETECTION

LIMIT  
µg/KG

RESULTS  
µg/KG  
(Dry Weight Basis)

CAS NUMBER

SURROGATE RECOVERY RESULTS

	% RECOVERY
321-60-8	0
367-12-4	0
4165-60-0	0
4165-62-2	0
1718-51-0	0
118-79-6	0

2-Fluorobiphenyl

2-Fluorophenol

Nitrobenzene-d5

Phenol-d5

p-Terphenyl-d14

2,4,6-Tribromophenol

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/05/01 18:15

DATE RECEIVED: 06/06/01

DATE ANALYZED: 06/15/01

ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-03  
LAB ID: 9912/6102-010  
PARENT ORDER NUMBER: 175082

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>PRACTICAL QUANTITATION LIMIT</u>		<u>RESULTS</u> <u>µg/KG</u>
	<u>µg/KG</u>	<u>µg/KG</u>	

12674-11-2	A-1016	53814	75400
1104-28-2	A-1221	53814	U
11141-16-5	A-1232	53814	U
53469-21-9	A-1242	53814	U
12672-29-6	A-1248	53814	U
11097-69-1	A-1254	53814	U
11096-82-5	A-1260	53814	220000

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	0
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 18:15  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
KEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## ANALYSIS RESULTS

SAMPLE ID: SB-013-04  
AB ID: 9912006102-011  
DATE COLLECTED: 06/05/01 18:25  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	3.97 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	49.8 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	3.78 B mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	13.7 mg/Kg	
TOTAL LEAD	SW-846 6010A	108 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.100 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
PH	SW-846 9045	7.530	06/08/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-04

LAB ID: 9912/6102-011

PARENT ORDER NUMBER: 175084

QUANT FACTOR :

5729.35

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>ng/Kg</u>	RESULTS <u>ng/Kg</u> (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	28647 U
74-87-3	Chloromethane	57293 U
75-01-4	Vinyl chloride	28647 U
74-83-9	Bromomethane	28647 U
75-00-3	Chloroethane	28647 U
75-69-04	Trichlorofluoromethane	28647 U
75-35-4	1,1-Dichloroethene	28647 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28647 U
67-64-1	Acetone	114587 87000J
108-05-4	Vinyl Acetate	57293 U
74-88-4	Methyl Iodide	28647 U
75-15-0	Carbon disulfide	57293 U
107-05-1	Allyl Chloride	28647 U
75-05-8	Acetonitrile	57293 U
75-09-2	Methylene chloride	114587 88000J
107-13-1	Acrylonitrile	57293 U
1634-04-4	Methyl tert butyl ether	57293 U
156-60-5	trans-1,2-Dichloroethene	28647 U
75-34-3	1,1-Dichloroethane	28647 U
107-02-8	Acrolein	57293 U
156-59-2	cis-1,2-Dichloroethene	28647 U
78-93-3	2-Butanone (MEK)	28647 U
594-20-7	2,2-Dichloropropane	28647 U
107-12-0	Propionitrile	28647 U
126-98-7	Methacrylonitrile	28647 U
74-97-5	Bromoacetylchloride	28647 U
67-66-3	Chloroform	28647 U
71-55-6	1,1,1-Trichloroethane	28647 U
563-58-6	1,1-Dichloropropene	28647 U
56-23-5	Carbon tetrachloride	28647 U
107-06-2	1,2-Dichloroethane	28647 U
71-43-2	Benzene	28647 U
79-01-6	Trichloroethene	28647 U
78-87-5	1,2-Dichloropropane	28647 U
80-62-6	Methyl Methacrylate	28647 U
123-91-1	1,4-Dioxane	28647 U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
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Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-04

LAB ID: 9912/6102-011

PARENT ORDER NUMBER: 175084

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION	
		LIMIT <u>ug/Kg</u>	RESULTS <u>ug/Kg</u> (Dry Weight Basis)
74-95-3	Dibromomethane	28647	U
78-83-1	Isobutyl Alcohol	57293	U
75-27-4	Bromodichloromethane	28647	U
10061-02-6	trans-1,3-Dichloropropene	28647	U
108-10-1	4-Methyl-2-pentanone	57293	U
76-46-9	2-Nitropropane	57293	U
108-88-3	Toluene	28647	U
10061-01-5	cis-1,3-Dichloropropene	28647	U
97-63-2	Ethyl Methacrylate	28647	U
79-00-5	1,1,2-Trichloroethane	28647	U
127-18-4	Tetrachloroethene	28647	220000
142-28-9	1,3-Dichloropropane	28647	U
591-78-6	2-Hexanone	57293	U
124-48-1	Chlorodibromomethane	28647	U
106-93-4	1,2-Dibromoethane	28647	U
108-90-7	Chlorobenzene	28647	U
630-20-6	1,1,1,2-Tetrachloroethane	28647	U
100-41-4	Ethylbenzene	28647	U
108-38-3	m&p-Xylene	28647	13000J
95-47-6	o-Xylene	28647	U
100-42-5	Styrene	28647	U
75-25-2	Bromoform	28647	U
98-82-8	Isopropylbenzene	28647	U
79-34-5	1,1,2,2-Tetrachloroethane	28647	U
108-86-1	Bromobenzene	28647	U
110-57-6	trans-1,4-Dichloro-2-butene	28647	U
96-18-4	1,2,3-Trichloropropane	28647	U
103-65-1	n-Propylbenzene	28647	U
95-49-8	2-Chlorotoluene	28647	U
108-67-8	1,3,5-Trimethylbenzene	28647	U
106-43-4	4-Chlorotoluene	28647	U
98-06-6	t-Butylbenzene	28647	U
95-63-6	1,2,4-Trimethylbenzene	28647	U
135-98-8	sec-Butylbenzene	28647	U
541-73-1	1,3-Dichlorobenzene	28647	U
99-87-6	p-Isopropyltoluene	28647	U
106-46-7	1,4-Dichlorobenzene	28647	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-04  
LAB ID: 9912/6102-011  
PARENT ORDER NUMBER: 175084

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION LIMIT <u>ug/Kg</u>	RESULTS <u>ug/Kg</u> (Dry Weight Basis)	<u>% RECOVERY</u>

95-50-1	1,2-Dichlorobenzene	28647	U
104-51-8	n-Butylbenzene	28647	U
96-12-8	1,2-Dibromo-3-chloropropane	28647	U
120-82-1	1,2,4-Trichlorobenzene	28647	U
87-68-3	Hexachlorobutadiene	57293	U
91-20-3	Naphthalene	57293	U
87-61-6	1,2,3-Trichlorobenzene	28647	U
110-75-8	2-Chloroethyl vinyl ether	57293	U

SURROGATE RECOVERY RESULTS

	<u>% RECOVERY</u>
460-00-4	100
17060-07-0	99
2037-26-5	95

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 18:25  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SB-013-04

LAB ID: 9912/6102-011

PARENT ORDER NUMBER: 175084

CAS NUMBER	METHOD DETECTION	QUANT FACTOR :	RESULTS
	LIMIT <u>ug/KG</u>		<u>ug/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	11539.20	U
62-75-9	n-Nitrosodimethylamine	8372.63	U
62-53-3	Aniline	12129.57	U
111-44-4	Bis(2-chloroethyl)ether	4884.03	U
95-57-8	2-Chlorophenol	5957.45	U
108-95-2	Phenol	4508.34	U
541-73-1	1,3-Dichlorobenzene	6225.80	U
106-46-7	1,4-Dichlorobenzene	6011.12	U
95-50-1	1,2-Dichlorobenzene	5689.09	U
100-51-6	Benzyl alcohol	4132.64	U
108-60-1	2,2-oxybis(1-Chloropropane)	7460.23	U
95-48-7	2-Methylphenol	6708.84	U
67-72-1	Hexachloroethane	5903.78	U
621-64-7	N-Nitrosodi-n-propylamine	5689.09	U
106-44-5	4-Methylphenol	7030.86	U
98-95-3	Nitrobenzene	4508.34	U
78-59-1	Isophorone	4776.69	U
88-75-5	2-Nitrophenol	5474.41	U
105-67-9	2,4-Dimethylphenol	13739.70	U
111-91-1	Bis(2-chloroethoxy)methane	4454.67	U
120-83-2	2,4-Dichlorophenol	4347.33	U
120-82-1	1,2,4-Trichlorobenzene	5420.74	U
91-20-3	Naphthalene	5259.73	U
65-85-0	Benzoic acid	9982.75	U
106-47-8	4-Chloroaniline	3542.27	U
87-68-3	Hexachlorobutadiene	6172.13	U
91-57-6	2-Methylnaphthalene	4562.01	7000
59-50-7	4-Chloro-3-methylphenol	5367.07	U
77-47-4	Hexachlorocyclopentadiene	7513.90	U
88-06-2	2,4,6-Trichlorophenol	8050.60	U
95-95-4	2,4,5-Trichlorophenol	14437.41	U
91-58-7	2-Chloronaphthalene	5045.04	U
88-74-4	2-Nitroaniline	3810.62	U
208-96-8	Acenaphthylene	3273.91	U
131-11-3	Dimethyl phthalate	4562.01	U
606-20-2	2,6-Dinitrotoluene	5206.06	U
83-32-9	Acenaphthene	3273.91	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
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(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SB-013-04

LAB ID: 9912/6102-011

PARENT ORDER NUMBER: 175084

QUANT FACTOR : 0.00

CAS NUMBER

		METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u>
			(Dry Weight Basis)
99-09-2	3-Nitroaniline	5742.76	U
51-28-5	2,4-Dinitrophenol	5206.06	U
132-64-9	Dibenzofuran	5474.41	U
121-14-2	2,4-Dinitrotoluene	4401.00	U
100-02-7	4-Nitrophenol	10895.15	U
86-73-7	Fluorene	3917.96	U
7005-72-3	4-Chlorophenyl phenyl ether	3649.61	U
84-66-2	Diethyl phthalate	4347.33	U
100-01-6	4-Nitroaniline	4508.34	U
534-52-1	4,6-Dinitro-2-methylphenol	8801.99	U
86-30-6	N-Nitrosodiphenylamine	5152.39	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	3810.62	U
101-55-3	4-Bromophenyl phenyl ether	3864.29	U
118-74-1	Hexachlorobenzene	3703.28	U
1912-24-9	Atrazine	16101.21	U
87-86-5	Pentachlorophenol	8748.32	U
85-01-8	Phenanthrene	3112.90	11000
120-12-7	Anthracene	4078.97	U
86-74-8	Carbazole	4776.69	U
15972-60-8	Alachlor	16101.21	U
84-74-2	Di-n-butyl phthalate	6869.85	U
206-44-0	Fluoranthene	3434.92	U
92-87-5	Benzidine	53670.69	U
129-00-0	Pyrene	4186.31	10000
85-68-7	Butyl benzyl phthalate	2146.83	U
56-55-3	Benz(a)anthracene	3703.28	U
218-01-9	Chrysene	4723.02	5000
91-94-1	3,3'-Dichlorobenzidine	6494.15	U
117-81-7	Bis(2-ethylhexyl)phthalate	6869.85	19000
117-84-0	Di-n-octyl phthalate	4078.97	U
205-99-2	Benzo(b)fluoranthene	7621.24	U
207-08-9	Benzo(k)fluoranthene	8694.65	U
50-32-8	Benzo(a)pyrene	3488.59	U
193-39-5	Iodo(1,2,3-cd)pyrene	4347.33	U
53-70-3	Dibenz(a,h)anthracene	3005.56	U
191-24-2	Benzo(g,h,i)perylene	4562.01	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Three

SAMPLE ID: SB-013-04

LAB ID: 9912/6102-011

PARENT ORDER NUMBER: 175084

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)
-------------------	--	---

## SURROGATE RECOVERY RESULTS

321-60-8	2-Fluorobiphenyl
367-12-4	2-Fluorophenol
4165-60-0	Nitrobenzene-d5
4165-62-2	Phenol-d5
1718-51-0	p-Terphenyl-d14
118-79-6	2,4,6-Tribromophenol

% RECOVERY
0
0
0
0
0
0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/05/01 18:25  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-04

LAB ID: 9912/6102-011

PARENT ORDER NUMBER: 175084

QUANT FACTOR : 0.00

## PRACTICAL QUANTITATION

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>ug/KG</u>	<u>RESULTS</u> <u>ug/KG</u>
12674-11-2	A-1016	2292	U
1104-28-2	A-1221	2292	U
11141-16-5	A-1232	2292	5350
53469-21-9	A-1242	2292	U
12672-29-6	A-1248	2292	U
11097-69-1	A-1254	2292	U
11096-82-5	A-1260	2292	1930J

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	95

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 18:25  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
301 JOLLY ROAD, SUITE 100  
KEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SB-013-05  
AB ID: 9912006102-012  
DATE COLLECTED: 06/06/01 09:00  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	5.02 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	92.9 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	4.96 B mg/Kg	
TOTAL LEAD	SW-846 6010A	18.0 B mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.100 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	362 mg/Kg	06/11/01 M.P
PH	SW-846 9045	7.990	06/07/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-05

LAB ID: 9912/6102-012

PARENT ORDER NUMBER: 175086

QUANT FACTOR : 35018.91

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>ng/Kg</u>	RESULTS <u>ng/Kg</u> (Dry Weight Basis)	
		U	U
75-71-8	Dichlorodifluoromethane	175095	U
74-87-3	Chloromethane	350189	U
75-01-4	Vinyl chloride	175095	U
74-83-9	Bromomethane	175095	U
75-00-3	Chloroethane	175095	U
75-69-04	Trichlorodifluoromethane	175095	U
75-35-4	1,1-Dichloroethene	175095	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	175095	880000J
67-64-1	Acetone	700378	U
108-05-4	Vinyl Acetate	350189	U
74-88-4	Methyl Iodide	175095	U
75-15-0	Carbon disulfide	350189	U
107-05-1	Allyl Chloride	175095	U
75-05-8	Acetonitrile	350189	U
75-09-2	Methylene chloride	700378	110000J
107-13-1	Acrylonitrile	350189	U
1634-04-4	Methyl tert butyl ether	350189	U
156-60-5	trans-1,2-Dichloroethene	175095	U
75-34-3	1,1-Dichloroethane	175095	U
107-02-8	Acrolein	350189	U
156-59-2	cis-1,2-Dichloroethene	175095	U
78-93-3	2-Butanone (MEK)	175095	U
594-20-7	2,2-Dichloropropane	175095	U
107-12-0	Propionitrile	175095	U
126-98-7	Methacrylonitrile	175095	U
74-97-5	Bromochloromethane	175095	U
67-66-3	Chloroform	175095	U
71-55-6	1,1,1-Trichloroethane	175095	680000
563-58-6	1,1-Dichloropropene	175095	U
56-23-5	Carbon tetrachloride	175095	U
107-06-2	1,2-Dichloroethane	175095	U
71-43-2	Benzene	175095	U
79-01-6	Trichloroethene	175095	280000
78-87-5	1,2-Dichloropropane	175095	U
80-62-6	Methyl Methacrylate	175095	U
123-91-1	1,4-Dioxane	175095	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-05

LAB ID: 9912/6102-012

PARENT ORDER NUMBER: 175086

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION

LIMIT  
pp/Kg

RESULTS  
ug/Kg  
(Dry Weight Basis)

CAS NUMBER

74-95-3	Dibromomethane	175095	U
78-83-1	Isobutyl Alcohol	350189	U
75-27-4	Bromodichloromethane	175095	U
10061-02-6	trans-1,3-Dichloropropene	175095	U
108-10-1	4-Methyl-2-pentanone	350189	U
76-46-9	2-Nitropropane	350189	U
108-88-3	Toluene	175095	1400000
10061-01-5	cis-1,3-Dichloropropene	175095	U
97-63-2	Ethyl Methacrylate	175095	U
79-00-5	1,1,2-Trichloroethane	175095	U
127-18-4	Tetrachloroethene	175095	2100000
142-28-9	1,3-Dichloropropane	175095	U
591-78-6	2-Hexanone	350189	U
124-48-1	Chlorodibromomethane	175095	U
106-93-4	1,2-Dibromoethane	175095	U
108-90-7	Chlorobenzene	175095	U
630-20-6	1,1,1,2-Tetrachloroethane	175095	U
100-41-4	Ethylbenzene	175095	570000
108-38-3	m&p-Xylene	175095	2100000
95-47-6	o-Xylene	175095	560000
100-42-5	Styrene	175095	U
75-25-2	Bromoform	175095	U
98-82-8	Isopropylbenzene	175095	U
79-34-5	1,1,2,2-Tetrachloroethane	175095	U
108-86-1	Bromobenzene	175095	U
110-57-6	trans-1,4-Dichloro-2-butene	175095	U
96-18-4	1,2,3-Trichloropropane	175095	U
103-65-1	n-Propylbenzene	175095	U
95-49-8	2-Chlorotoluene	175095	U
108-67-8	1,3,5-Trimethylbenzene	175095	U
106-43-4	4-Chlorotoluene	175095	U
98-06-6	t-Butylbenzene	175095	U
95-63-6	1,2,4-Trimethylbenzene	175095	83000J
135-98-8	sec-Butylbenzene	175095	U
541-73-1	1,3-Dichlorobenzene	175095	U
99-87-6	p-Isopropyltoluene	175095	U
106-46-7	1,4-Dichlorobenzene	175095	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SB-013-06  
LAB ID: 9912006102-013  
DATE COLLECTED: 06/06/01 14:00  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<3.00 mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	21.9 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	3.57 B mg/Kg	
TOTAL LEAD	SW-846 6010A	65.1 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.100 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
PH	SW-846 9045	7.110	06/08/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-05

LAB ID: 9912/6102-012

PARENT ORDER NUMBER: 175086

QUANT FACTOR : 0.00

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT <u>µg/Kg</u>	RESULTS <u>µg/Kg</u> (Dry Weight Basis)
95-50-1	1,2-Dichlorobenzene	175095	U
104-51-8	n-Butylbenzene	175095	U
96-12-8	1,2-Dibromo-3-chloropropane	175095	U
120-82-1	1,2,4-Trichlorobenzene	175095	U
87-68-3	Hexachlorobutadiene	350189	U
91-20-3	Naphthalene	350189	U
87-61-6	1,2,3-Trichlorobenzene	175095	U
110-75-8	2-Chloroethyl vinyl ether	350189	U

## SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	100
17060-07-0	1,2-Dichloroethane-d4	95
2037-26-5	Toluene-d8	95

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 09:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SB-013-05

LAB ID: 9912/6102-012

PARENT ORDER NUMBER: 175085

QUANT FACTOR : 466.92

CAS NUMBER

<u>CAS NUMBER</u>	NAME	METHOD DETECTION LIMIT <u>ug/KG</u>	RESULTS <u>ug/KG</u> (Dry Weight Basis)	
			U	U
110-86-1	Pyridine	1003.88		
62-75-9	n-Nitrosodimethylamine	728.39		
62-53-3	Aniline	1055.24		
111-44-4	Bis(2-chloroethyl)ether	424.90		
95-57-8	2-Chlorophenol	518.28		
108-95-2	Phenol	392.21		
541-73-1	1,3-Dichlorobenzene	541.63		
106-46-7	1,4-Dichlorobenzene	522.95		
95-50-1	1,2-Dichlorobenzene	494.93	500	
100-51-6	Benzyl alcohol	359.53		
108-60-1	2,2-oxybis(1-Chloropropane)	649.02		
95-48-7	2-Methylphenol	583.65		
67-72-1	Hexachloroethane	513.61		
621-64-7	N-Nitrosodi-n-propylamine	494.93		
106-44-5	4-Methylphenol	611.66		
98-95-3	Nitrobenzene	392.21		
78-59-1	Isophorone	415.56		
88-75-5	2-Nitrophenol	476.26		
105-67-9	2,4-Dimethylphenol	1195.31		
111-91-1	Bis(2-chloroethoxy)methane	387.54		
120-83-2	2,4-Dichlorophenol	378.20		
120-82-1	1,2,4-Trichlorobenzene	471.59		
91-20-3	Naphthalene	457.58	4600	
65-85-0	Benzoic acid	868.47		
106-47-8	4-Chloroaniline	308.17		
87-68-3	Hexachlorobutadiene	536.96		
91-57-6	2-Methylnaphthalene	396.88	1500	
59-50-7	4-Chloro-3-methylphenol	466.92		
77-47-4	Hexachlorocyclopentadiene	653.69		
88-06-2	2,4,6-Trichlorophenol	700.38		
95-95-4	2,4,5-Trichlorophenol	1256.01		
91-58-7	2-Chloronaphthalene	438.90		
88-74-4	2-Nitroaniline	331.51		
208-96-8	Acenaphthylene	284.82		
131-11-3	Dimethyl phthalate	396.88		
606-20-2	2,6-Dinitrotoluene	452.91		
83-32-9	Acenaphthene	284.82		

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SB-013-05

LAB ID: 9912/6102-012

PARENT ORDER NUMBER: 175085

QUANT FACTOR : 0.00

CAS NUMBER	RESULTS <u>mg/KG</u> (Dry Weight Basis)	METHOD DETECTION	LIMIT <u>mg/KG</u>
99-09-2	U	3-Nitroaniline	499.60
51-28-5	U	2,4-Dinitrophenol	452.91
132-64-9	U	Dibenzofuran	476.26
121-14-2	U	2,4-Dinitrotoluene	382.87
100-02-7	U	4-Nitrophenol	947.85
86-73-7	1300	Fluorene	340.85
7005-72-3	U	4-Chlorophenyl phenyl ether	317.50
84-66-2	U	Diethyl phthalate	378.20
100-01-6	U	4-Nitroaniline	392.21
534-52-1	U	4,6-Dinitro-2-methylphenol	765.75
86-30-6	U	N-Nitrosodiphenylamine	448.24
103-33-3	U	Azobenzene (1,2-Diphenylhydrazine)	331.51
101-55-3	U	4-Bromophenyl phenyl ether	336.18
118-74-1	U	Hexachlorobenzene	322.17
1912-24-9	U	Atrazine	1400.76
87-86-5	U	Pentachlorophenol	761.08
85-01-8	510	Phenanthrene	270.81
120-12-7	U	Anthracene	354.86
86-74-8	U	Carbazole	415.56
15972-60-8	U	Alachlor	1400.76
84-74-2	U	Di-n-butyl phthalate	597.66
206-44-0	U	Fluoranthene	298.83
92-87-5	U	Benzidine	4669.19
129-00-0	U	Pyrene	364.20
85-68-7	490	Butyl benzyl phthalate	186.77
56-55-3	U	Benz(a)anthracene	322.17
218-01-9	U	Chrysene	410.89
91-94-1	U	3,3'-Dichlorobenzidine	564.97
117-81-7	2200	Bis(2-ethylhexyl)phthalate	597.66
117-84-0	U	Di-n-octyl phthalate	354.86
205-99-2	U	Benzo(b)fluoranthene	663.02
207-08-9	U	Benzo(k)fluoranthene	756.41
50-32-8	U	Benzo(a)pyrene	303.50
193-39-5	U	Indeno(1,2,3-cd)pyrene	378.20
53-70-3	U	Dibenz(a,h)anthracene	261.47
191-24-2	U	Benzo(g,h,i)perylene	396.88

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SB-013-05

LAB ID: 9912/6102-012

PARENT ORDER NUMBER: 175085

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>METHOD DETECTION LIMIT</u> <u>ug/KG</u>	<u>RESULTS</u> <u>ug/KG</u> (Dry Weight Basis)
-------------------	---	--

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
321-60-8	2-Fluorobiphenyl	113
367-12-4	2-Fluorophenol	72
4165-60-0	Nitrobenzene-d5	86
4165-62-2	Phenol-d5	83
1718-51-0	p-Terphenyl-d14	91
118-79-6	2,4,6-Tribromophenol	71

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/06/01 09:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-05  
LAB ID: 9912/6102-012  
PARENT ORDER NUMBER: 175085

QUANT FACTOR : 0.00

## PRACTICAL QUANTITATION

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT ug/KG</u>	<u>RESULTS ug/KG</u>
12674-11-2	A-1016	233	402
1104-28-2	A-1221	233	U
11141-16-5	A-1232	233	U
53469-21-9	A-1242	233	U
12672-29-6	A-1248	233	U
11097-69-1	A-1254	233	U
11096-82-5	A-1260	233	183J

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	125
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	85

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 09:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-06  
LAB ID: 9912/6102-013  
PARENT ORDER NUMBER: 175087

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	6.9	U
74-87-3	Chloromethane	13.7	U
75-01-4	Vinyl chloride	2.7	U
74-83-9	Bromomethane	13.7	U
75-00-3	Chloroethane	131	483
75-69-04	Trichlorofluoromethane	6.9	U
75-35-4	1,1-Dichloroethene	6.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.9	8.0
67-64-1	Acetone	68.7	U
108-05-4	Vinyl Acetate	68.7	U
74-88-4	Methyl Iodide	13.7	U
75-15-0	Carbon disulfide	6.9	U
107-05-1	Allyl Chloride	6.9	U
75-05-8	Acetonitrile	6.9	U
75-09-2	Methylene chloride	6.9	U
107-13-1	Acrylonitrile	6.9	U
1634-04-4	Methyl tert butyl ether	2.7	U
156-60-5	trans-1,2-Dichloroethene	6.9	31.4
75-34-3	1,1-Dichloroethane	6.9	232
107-02-8	Acrolein	137	U
156-59-2	cis-1,2-Dichloroethene	6.9	111
78-93-3	2-Butanone (MEK)	68.7	U
594-20-7	2,2-Dichloropropane	6.9	U
107-12-0	Propionitrile	6.9	U
126-98-7	Methacrylonitrile	68.7	U
74-97-5	Bromochloromethane	6.9	U
67-66-3	Chloroform	6.9	U
71-55-6	1,1,1-Trichloroethane	6.9	8.3
563-58-6	1,1-Dichloropropene	6.9	U
56-23-5	Carbon tetrachloride	6.9	U
107-06-2	1,2-Dichloroethane	6.9	U
71-43-2	Benzene	327	1660
79-01-6	Trichloroethene	6.9	41.2
78-87-5	1,2-Dichloropropane	6.9	U
80-62-6	Methyl Methacrylate	13.7	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-06  
LAB ID: 9912/6102-013  
PARENT ORDER NUMBER: 175087

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)
123-91-1	1,4-Dioxane	6.9	U
74-95-3	Dibromomethane	6.9	U
78-83-1	Isobutyl Alcohol	6.9	U
75-27-4	Bromodichloromethane	6.9	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	68.7	U
76-46-9	2-Nitropropane	68.7	U
108-86-3	Toluene	6.9	43.9
10061-01-5	cis-1,3-Dichloropropene	5.5	U
97-63-2	Ethyl Methacrylate	6.9	U
79-00-5	1,1,2-Trichloroethane	6.9	U
127-18-4	Tetrachloroethene	6.9	40.2
142-28-9	1,3-Dichloropropane	6.9	U
591-78-6	2-Hexanone	68.7	U
124-48-1	Chlorodibromomethane	13.7	U
106-93-4	1,2-Dibromoethane	6.9	U
108-90-7	Chlorobenzene	6.9	21.1
630-20-6	1,1,1,2-Tetrachloroethane	6.9	U
100-41-4	Ethylbenzene	6.9	46.7
108-38-3	m&p-Xylene	6.9	34.5
95-47-6	o-Xylene	6.9	35.2
100-42-5	Styrene	6.9	U
75-25-2	Bromoform	6.9	U
98-82-8	Isopropylbenzene	6.9	U
79-34-5	1,1,2,2-Tetrachloroethane	6.9	U
108-86-1	Bromobenzene	6.9	U
110-57-6	trans-1,4-Dichloro-2-butene	6.9	U
96-18-4	1,2,3-Trichloropropene	13.7	U
103-65-1	n-Propylbenzene	6.9	U
95-49-8	2-Chlorotoluene	6.9	U
108-67-8	1,3,5-Trimethylbenzene	6.9	U
106-43-4	4-Chlorotoluene	6.9	U
98-06-6	t-Butylbenzene	6.9	U
95-63-6	1,2,4-Trimethylbenzene	6.9	U
135-98-8	sec-Butylbenzene	6.9	U
541-73-1	1,3-Dichlorobenzene	6.9	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMENTAL TESTS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-06  
LAB ID: 9912/6102-013  
PARENT ORDER NUMBER: 175087

PRACTICAL QUANTITATION

CAS NUMBER		LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)
99-87-6	p-Isopropyltoluene	6.9	U
106-46-7	1,4-Dichlorobenzene	6.9	U
95-50-1	1,2-Dichlorobenzene	6.9	U
104-51-8	n-Butylbenzene	6.9	U
96-12-8	1,2-Dibromo-3-chloropropane	6.9	U
120-82-1	1,2,4-Trichlorobenzene	6.9	U
87-68-3	Hexachlorobutadiene	6.9	U
91-20-3	Naphthalene	13.7	U
87-61-6	1,2,3-Trichlorobenzene	6.9	U
110-75-8	2-Chloroethyl vinyl ether	6.9	U

SURROGATE RECOVERY RESULTS

	% RECOVERY
1,2-Dichloroethane-d4	114
4-Bromofluorobenzene	85.6
Dibromofluoromethane	110
Toluene-d8	96.2

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: T.L.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE One

SAMPLE ID: SB-013-06

LAB ID: 9912/6102-013

PARENT ORDER NUMBER: 175087

QUANT FACTOR :

461.74

CAS NUMBER	METHOD DETECTION	LIMIT <u>µg/KG</u>	RESULTS
			<u>µg/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	992.75	U
62-75-9	n-Nitrosodimethylamine	720.32	U
62-53-3	Aniline	1043.54	U
111-44-4	Bis(2-chloroethyl)ether	420.19	U
95-57-8	2-Chlorophenol	512.54	U
108-95-2	Phenol	387.87	U
541-73-1	1,3-Dichlorobenzene	535.62	U
106-46-7	1,4-Dichlorobenzene	517.15	840
95-50-1	1,2-Dichlorobenzene	489.45	510
100-51-6	Benzyl alcohol	355.54	U
108-60-1	2,2-oxybis(1-Chloropropane)	641.82	U
95-48-7	2-Methylphenol	577.18	U
67-72-1	Hexachloroethane	507.92	U
621-64-7	N-Nitrosodi-n-propylamine	489.45	U
106-44-5	4-Methylphenol	604.89	U
98-95-3	Nitrobenzene	387.87	U
78-59-1	Isophorone	410.95	U
88-75-5	2-Nitrophenol	470.98	U
105-67-9	2,4-Dimethylphenol	1182.07	U
111-91-1	Bis(2-chloroethoxy)methane	383.25	U
120-83-2	2,4-Dichlorophenol	374.01	U
120-82-1	1,2,4-Trichlorobenzene	466.36	U
91-20-3	Naphthalene	452.51	U
65-85-0	Benzoic acid	858.84	U
106-47-8	4-Chloroaniline	304.75	U
87-68-3	Hexachlorobutadiene	531.01	U
91-57-6	2-Methylnaphthalene	392.48	U
59-50-7	4-Chloro-3-methylphenol	461.74	U
77-47-4	Hexachlorocyclopentadiene	646.44	U
88-06-2	2,4,6-Trichlorophenol	692.62	U
95-95-4	2,4,5-Trichlorophenol	1242.09	U
91-58-7	2-Chloronaphthalene	434.04	U
88-74-4	2-Nitroaniline	327.84	U
208-96-8	Acenaphthylene	281.66	U
131-11-3	Dimethyl phthalate	392.48	U
606-20-2	2,6-Dinitrotoluene	447.89	U
83-32-9	Acenaphthene	281.66	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

### METHOD 8270

PAGE Two

SAMPLE ID: SB-013-06

LAB ID: 9912/6102-013

PARENT ORDER NUMBER: 175087

CAS NUMBER	QUANT FACTOR :	0.00	RESULTS
	METHOD DETECTION	LIMIT	<u>ug/KG</u>
99-09-2	3-Nitroaniline	494.07	U
51-28-5	2,4-Dinitrophenol	447.89	U
132-64-9	Dibenzofuran	470.98	U
121-14-2	2,4-Dinitrotoluene	378.63	U
100-02-7	4-Nitrophenol	937.34	U
86-73-7	Fluorene	337.07	U
7005-72-3	4-Chlorophenyl phenyl ether	313.99	U
84-66-2	Diethyl phthalate	374.01	U
100-01-6	4-Nitroaniline	387.87	U
534-52-1	4,6-Dinitro-2-methylphenol	757.26	U
86-30-6	N-Nitrosodiphenylamine	443.27	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	327.84	U
101-55-3	4-Bromophenyl phenyl ether	332.46	U
118-74-1	Hexachlorobenzene	318.60	U
1912-24-9	Atrazine	1385.23	U
87-86-5	Pentachlorophenol	752.64	U
85-01-8	Phenanthrene	267.81	U
120-12-7	Anthracene	350.93	U
86-74-8	Carbazole	410.95	U
15972-60-8	Alachlor	1385.23	U
84-74-2	Di-n-butyl phthalate	591.03	U
206-44-0	Fluoranthene	295.52	U
92-87-5	Benzidine	4617.44	U
129-00-0	Pyrene	360.16	U
85-68-7	Butyl benzyl phthalate	184.70	U
56-55-3	Benz(a)anthracene	318.60	U
218-01-9	Chrysene	406.34	U
91-94-1	3,3'-Dichlorobenzidine	558.71	U
117-81-7	Bis(2-ethylhexyl)phthalate	591.03	U
117-84-0	Di-n-octyl phthalate	350.93	U
205-99-2	Benzo(b)fluoranthene	655.68	U
207-08-9	Benzo(k)fluoranthene	748.03	U
50-32-8	Benzo(a)pyrene	300.13	U
193-39-5	Iodo(1,2,3-cd)pyrene	374.01	U
53-70-3	Dibenz(a,h)anthracene	258.58	U
191-24-2	Benzo(g,h,i)perylene	392.48	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SB-013-06

LAB ID: 9912/6102-013

PARENT ORDER NUMBER: 175087

QUANT FACTOR : 0.00

### METHOD DETECTION

#### LIMIT

µg/KG

#### RESULTS

µg/KG

(Dry Weight Basis)

#### CAS NUMBER

### SURROGATE RECOVERY RESULTS

#### % RECOVERY

321-60-8	2-Fluorobiphenyl	122
367-12-4	2-Fluorophenol	68
4165-60-0	Nitrobenzene-d5	90
4165-62-2	Phenol-d5	79
1718-51-0	p-Terphenyl-d14	93
118-79-6	2,4,6-Tribromophenol	82

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/06/01 14:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-06

LAB ID: 9912/6102-013

PARENT ORDER NUMBER: 175087

QUANT FACTOR : 0.00

## PRACTICAL QUANTITATION

LIMIT  
ug/KG

RESULTS  
ug/KG

### CAS NUMBER

12674-11-2	A-1016	92	U
1104-28-2	A-1221	92	U
11141-16-5	A-1232	92	U
53469-21-9	A-1242	92	U
12672-29-6	A-1248	92	U
11097-69-1	A-1254	92	U
11096-82-5	A-1260	92	143

## SURROGATE RECOVERY RESULTS

% RECOVERY  
88

877-09-8      2,4,5,6-Tetrachloro-meta-xylene  
(TCMX)

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 14:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

— ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
— ATTN: LINDA KOROBKA  
INVOICE: 54369  
PO: ---  
— PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SB-013-07  
LAB ID: 9912006102-014  
DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<3.00 mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	60.9 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	4.08 B mg/Kg	
TOTAL LEAD	SW-846 6010A	6.40 B mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.100 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	7.85 mg/Kg	06/11/01 M.P
PH	SW-846 9045	7.630	06/07/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
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Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-07  
LAB ID: 9912/6102-014  
PARENT ORDER NUMBER: 175088

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>PRACTICAL QUANTITATION</u>		<u>RESULTS</u> <u>µg/KG</u>
	<u>LIMIT</u>	<u>µg/KG</u>	

12674-11-2	A-1016	85	U
1104-28-2	A-1221	85	U
11141-16-5	A-1232	85	U
53469-21-9	A-1242	85	U
12672-29-6	A-1248	85	U
11097-69-1	A-1254	85	U
11096-82-5	A-1260	85	U

### SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	121
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	87

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE One

SAMPLE ID: SB-013-07

LAB ID: 9912/6102-014

PARENT ORDER NUMBER: 175088

QUANT FACTOR :

423.23

CAS NUMBER	METHOD DETECTION	LIMIT	RESULTS
		ug/KG	ug/KG (Dry Weight Basis)
110-86-1	Pyridine	909.94	U
62-75-9	n-Nitrosodimethylamine	660.23	U
62-53-3	Aniline	956.49	U
111-44-4	Bis(2-chloroethyl)ether	385.14	U
95-57-8	2-Chlorophenol	469.78	U
108-95-2	Phenol	355.51	540
541-73-1	1,3-Dichlorobenzene	490.94	U
106-46-7	1,4-Dichlorobenzene	474.01	1500
95-50-1	1,2-Dichlorobenzene	448.62	2300
100-51-6	Benzyl alcohol	325.88	U
108-60-1	2,2-oxybis(1-Chloropropane)	588.29	U
95-48-7	2-Methylphenol	529.03	U
67-72-1	Hexachloroethane	465.55	U
621-64-7	N-Nitrosodi-n-propylamine	448.62	U
106-44-5	4-Methylphenol	554.43	U
98-95-3	Nitrobenzene	355.51	U
78-59-1	Isophorone	376.67	U
88-75-5	2-Nitrophenol	431.69	U
105-67-9	2,4-Dimethylphenol	1083.46	U
111-91-1	Bis(2-chloroethoxy)methane	351.28	U
120-83-2	2,4-Dichlorophenol	342.81	U
120-82-1	1,2,4-Trichlorobenzene	427.46	5300
91-20-3	Naphthalene	414.76	U
65-85-0	Benzoic acid	787.20	U
106-47-8	4-Chloroaniline	279.33	U
87-68-3	Hexachlorobutadiene	486.71	U
91-57-6	2-Methylnaphthalene	359.74	U
59-50-7	4-Chloro-3-methylphenol	423.23	U
77-47-4	Hexachlorocyclopentadiene	592.52	U
88-06-2	2,4,6-Trichlorophenol	634.84	U
95-95-4	2,4,5-Trichlorophenol	1138.48	U
91-58-7	2-Chloronaphthalene	397.83	U
88-74-4	2-Nitroaniline	300.49	U
208-96-8	Acenaphthylene	258.17	U
131-11-3	Dimethyl phthalate	359.74	U
606-20-2	2,6-Dinitrotoluene	410.53	U
83-32-9	Acenaphthene	258.17	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SB-013-07

LAB ID: 9912/6102-014

PARENT ORDER NUMBER: 175088

QUANT FACTOR : 0.00

CAS NUMBER	RESULTS <u>ug/KG</u> (Dry Weight Basis)	METHOD DETECTION
		LIMIT <u>ug/KG</u>
99-09-2	U	452.85
51-28-5	U	410.53
132-64-9	U	431.69
121-14-2	U	347.05
100-02-7	U	859.15
86-73-7	U	308.96
7005-72-3	U	287.79
84-66-2	U	342.81
100-01-6	U	355.51
534-52-1	U	694.09
86-30-6	U	406.30
103-33-3	U	300.49
101-55-3	U	304.72
118-74-1	U	292.03
1912-24-9	U	1269.68
87-86-5	U	689.86
85-01-8	U	245.47
120-12-7	U	321.65
86-74-8	U	376.67
15972-60-8	U	1269.68
84-74-2	U	541.73
206-44-0	U	270.87
92-87-5	U	4232.27
129-00-0	U	330.12
85-68-7	U	169.29
56-55-3	U	292.03
218-01-9	U	372.44
91-94-1	U	512.10
117-81-7	U	541.73
117-84-0	U	321.65
205-99-2	U	600.98
207-08-9	U	685.63
50-32-8	U	275.10
193-39-5	U	342.81
53-70-3	U	237.01
191-24-2	U	359.74

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Three

SAMPLE ID: SB-013-07

LAB ID: 9912/6102-014

PARENT ORDER NUMBER: 175088

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	METHOD DETECTION <u>LIMIT</u> <u>ug/KG</u>	RESULTS <u>ug/KG</u> (Dry Weight Basis)	% RECOVERY

### SURROGATE RECOVERY RESULTS

			% RECOVERY
321-60-8	2-Fluorobiphenyl		105
367-12-4	2-Fluorophenol		76
4165-60-0	Nitrobenzene-d5		80
4165-62-2	Phenol-d5		79
1718-51-0	p-Terphenyl-d14		84
118-79-6	2,4,6-Tribromophenol		62

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-07

LAB ID: 9912/6102-014

PARENT ORDER NUMBER: 175089

QUANT FACTOR : 0.00

CAS NUMBER		PRACTICAL QUANTITATION	RESULTS <u>µg/Kg</u> (Dry Weight Basis)
		LIMIT <u>µg/Kg</u>	
74-95-3	Dibromomethane	794	U
78-83-1	Isobutyl Alcohol	1587	U
75-27-4	Bromo-dichloromethane	794	U
10061-02-6	trans-1,3-Dichloropropene	794	U
108-10-1	4-Methyl-2-pentanone	1587	730J
76-46-9	2-Nitropropane	1587	U
108-88-3	Toluene	794	5900
10061-01-5	cis-1,3-Dichloropropene	794	U
97-63-2	Ethyl Methacrylate	794	U
79-00-5	1,1,2-Trichloroethane	794	U
127-18-4	Tetrachloroethene	794	U
142-28-9	1,3-Dichloropropane	794	U
591-78-6	2-Hexanone	1587	U
124-48-1	Chlorodibromomethane	794	U
106-93-4	1,2-Dibromoethane	794	U
108-90-7	Chlorobenzene	794	2500
630-20-6	1,1,1,2-Tetrachloroethane	794	U
100-41-4	Ethylbenzene	794	620J
108-38-3	m&p-Xylene	794	1900
95-47-6	o-Xylene	794	450J
100-42-5	Styrene	794	U
75-25-2	Bromoform	794	U
98-82-8	Isopropylbenzene	794	U
79-34-5	1,1,2,2-Tetrachloroethane	794	U
108-86-1	Bromobenzene	794	U
110-57-6	trans-1,4-Dichloro-2-butene	794	U
96-18-4	1,2,3-Trichloropropene	794	U
103-65-1	n-Propylbenzene	794	U
95-49-8	2-Chlorotoluene	794	U
108-67-8	1,3,5-Trimethylbenzene	794	U
106-43-4	4-Chlorotoluene	794	U
98-06-6	t-Butylbenzene	794	480J
95-63-6	1,2,4-Trimethylbenzene	794	U
135-98-8	sec-Butylbenzene	794	U
541-73-1	1,3-Dichlorobenzene	794	U
99-87-6	p-Isopropyltoluene	794	U
106-46-7	1,4-Dichlorobenzene	794	10000

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-07

LAB ID: 9912/6102-014

PARENT ORDER NUMBER: 175089

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION LIMIT <u>µg/Kg</u>	RESULTS <u>µg/Kg</u> (Dry Weight Basis)	<u>RESULTS</u>

95-50-1	1,2-Dichlorobenzene	794	11000
104-51-8	n-Butylbenzene	794	U
96-12-8	1,2-Dibromo-3-chloropropane	794	U
120-82-1	1,2,4-Trichlorobenzene	794	9600
87-68-3	Hexachlorobutadiene	1587	U
91-20-3	Naphthalene	1587	350J
87-61-6	1,2,3-Trichlorobenzene	794	2300
110-75-8	2-Chloroethyl vinyl ether	1587	U

## SURROGATE RECOVERY RESULTS

	% RECOVERY
460-00-4	100
17060-07-0	97
2037-26-5	98

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-07

LAB ID: 9912/6102-014

PARENT ORDER NUMBER: 175089

QUANT FACTOR : 158.71

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION <u>LIMIT</u> <u>ug/Kg</u>	<u>RESULTS</u>	
		<u>ng/Kg</u>	(Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	794	U
74-87-3	Chloromethane	1587	U
75-01-4	Vinyl chloride	794	U
74-83-9	Bromomethane	794	U
75-00-3	Chloroethane	794	U
75-69-04	Trichlorofluoromethane	794	U
75-35-4	1,1-Dichloroethene	794	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	794	U
67-64-1	Acetone	3174	U
108-05-4	Vinyl Acetate	1587	U
74-88-4	Methyl Iodide	794	U
75-15-0	Carbon disulfide	1587	U
107-05-1	Allyl Chloride	794	U
75-05-8	Acetonitrile	1587	U
75-09-2	Methylene chloride	3174	1400J
107-13-1	Acrylonitrile	1587	U
1634-04-4	Methyl tert butyl ether	1587	U
156-60-5	trans-1,2-Dichloroethene	794	U
75-34-3	1,1-Dichloroethane	794	2300
107-02-8	Acrolein	1587	U
156-59-2	cis-1,2-Dichloroethene	794	5000
78-93-3	2-Butanone (MEK)	794	1100
594-20-7	2,2-Dichloropropane	794	U
107-12-0	Propionitrile	794	U
126-98-7	Methacrylonitrile	794	U
74-97-5	Bromochloromethane	794	U
67-66-3	Chloroform	794	U
71-55-6	1,1,1-Trichloroethane	794	3400
563-58-6	1,1-Dichloropropene	794	U
56-23-5	Carbon tetrachloride	794	U
107-06-2	1,2-Dichloroethane	794	U
71-43-2	Benzene	794	11000
79-01-6	Trichloroethene	794	1300
78-87-5	1,2-Dichloropropane	794	U
80-62-6	Methyl Methacrylate	794	U
123-91-1	1,4-Dioxane	794	U

ROY F. WESTON, INC.  
501 JOLLY ROAD, SUITE 100  
KEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PO:

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

AMPLE ID: SB-013-08  
AB ID: 9912006135-006  
DATE COLLECTED: 06/06/01 15:40  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	4.54 B mg/Kg	06/20/01 J.T
TOTAL BARIUM	SW-846 6010A	156 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	10.6 mg/Kg	
TOTAL LEAD	SW-846 6010A	32.7 B mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.300 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	10,200 mg/Kg	06/18/01 M.P
PH	SW-846 9045	6.770	06/11/01 A.V
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/11/01 A.V

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-08  
LAB ID: 9912/6135-006  
PARENT ORDER NUMBER: 175219

QUANT FACTOR : 612.07

<u>CAS NUMBER</u>	NAME	<u>PRACTICAL QUANTITATION</u>		<u>RESULTS</u> <u>ug/Kg</u> (Dry Weight Basis)
		LIMIT	<u>ug/Kg</u>	
75-71-8	Dichlorodifluoromethane	3060		U
74-87-3	Chloromethane	6121		U
75-01-4	Vinyl chloride	3060		U
74-83-9	Bromomethane	3060		U
75-00-3	Chloroethane	3060		U
75-69-04	Trichlorofluoromethane	3060		U
75-35-4	1,1-Dichloroethene	3060		U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3060		U
67-64-1	Acetone	12241		U
108-05-4	Vinyl Acetate	6121		U
74-88-4	Methyl Iodide	3060		U
75-15-0	Carbon disulfide	6121		U
107-05-1	Allyl Chloride	3060		U
75-05-8	Acetonitrile	6121		U
75-09-2	Methylene chloride	12241	10000J B	
107-13-1	Acrylonitrile	6121		U
1634-04-4	Methyl tert butyl ether	6121		U
156-60-5	trans-1,2-Dichloroethene	3060		U
75-34-3	1,1-Dichloroethane	3060	2200J	
107-02-8	Acrolein	6121		U
156-59-2	cis-1,2-Dichloroethene	3060		U
78-93-3	2-Butanone (MEK)	3060		U
594-20-7	2,2-Dichloropropane	3060		U
107-12-0	Propionitrile	3060		U
126-98-7	Methacrylonitrile	3060		U
74-97-5	Bromochloromethane	3060		U
67-66-3	Chloroform	3060		U
71-55-6	1,1,1-Trichloroethane	3060	7500	
563-58-6	1,1-Dichloropropene	3060		U
56-23-5	Carbon tetrachloride	3060		U
107-06-2	1,2-Dichloroethane	3060		U
71-43-2	Benzene	3060	4000	
79-01-6	Trichloroethene	3060		U
78-87-5	1,2-Dichloropropane	3060		U
80-62-6	Methyl Methacrylate	3060		U
123-91-1	1,4-Dioxane	3060		U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-08

LAB ID: 9912/6135-006

PARENT ORDER NUMBER: 175219

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION

LIMIT  
µg/Kg

RESULTS  
µg/Kg  
(Dry Weight Basis)

CAS NUMBER

74-95-3	Dibromomethane	3060	U
78-83-1	Isobutyl Alcohol	6121	U
75-27-4	Bromodichloromethane	3060	U
10061-02-6	trans-1,3-Dichloropropene	3060	U
108-10-1	4-Methyl-2-pentanone	6121	U
76-46-9	2-Nitropropane	6121	U
108-88-3	Toluene	3060	19000
10061-01-5	cis-1,3-Dichloropropene	3060	U
97-63-2	Ethyl Methacrylate	3060	U
79-00-5	1,1,2-Trichloroethane	3060	U
127-18-4	Tetrachloroethylene	3060	7000
142-28-9	1,3-Dichloropropane	3060	U
591-78-6	2-Hexanone	6121	U
124-48-1	Chlorodibromomethane	3060	U
106-93-4	1,2-Dibromoethane	3060	U
108-90-7	Chlorobenzene	3060	6600
630-20-6	1,1,1,2-Tetrachloroethane	3060	U
100-41-4	Ethylbenzene	3060	8700
108-38-3	m&p-Xylene	3060	33000
95-47-6	o-Xylene	3060	13000
100-42-5	Styrene	3060	U
75-25-2	Bromoform	3060	U
98-82-8	Isopropylbenzene	3060	U
79-34-5	1,1,2,2-Tetrachloroethane	3060	U
108-86-1	Bromobenzene	3060	U
110-57-6	trans-1,4-Dichloro-2-butene	3060	U
96-18-4	1,2,3-Trichloropropane	3060	U
103-65-1	n-Propylbenzene	3060	U
95-49-8	2-Chlorotoluene	3060	U
108-67-8	1,3,5-Trimethylbenzene	3060	3800
106-43-4	4-Chlorotoluene	3060	U
98-06-6	t-Butylbenzene	3060	U
95-63-6	1,2,4-Trimethylbenzene	3060	11000
135-98-8	sec-Butylbenzene	3060	U
541-73-1	1,3-Dichlorobenzene	3060	U
99-87-6	p-Isopropyltoluene	3060	U
106-46-7	1,4-Dichlorobenzene	3060	6600

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-08

LAB ID: 9912/6135-006

PARENT ORDER NUMBER: 175219

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION

LIMIT

ug/Kg

RESULTS

ug/Kg  
(Dry Weight Basis)

CAS NUMBER

95-50-1	1,2-Dichlorobenzene	3060	3800
104-51-8	n-Butylbenzene	3060	1300J
96-12-8	1,2-Dibromo-3-chloropropane	3060	U
120-82-1	1,2,4-Trichlorobenzene	3060	U
87-68-3	Hexachlorobutadiene	6121	U
91-20-3	Naphthalene	6121	18000 B
87-61-6	1,2,3-Trichlorobenzene	3060	U
110-75-8	2-Chloroethyl vinyl ether	6121	U

SURROGATE RECOVERY RESULTS

	% RECOVERY
460-00-4	100
17060-07-0	96
2037-26-5	99

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 15:40  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/20/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SB-013-08

LAB ID: 9912/6135-006

PARENT ORDER NUMBER: 175218

QUANT FACTOR : 12241.40

CAS NUMBER

<u>CAS NUMBER</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)	METHOD DETECTION	LIMIT <u>µg/KG</u>
110-86-1	U	Pyridine	26319.01
62-75-9	U	n-Nitrosodimethylamine	19096.58
62-53-3	U	Aniline	27665.56
111-44-4	U	Bis(2-chloroethyl)ether	11139.67
95-57-8	U	2-Chlorophenol	13587.95
108-95-2	U	Phenol	10282.78
541-73-1	U	1,3-Dichlorobenzene	14200.02
106-46-7	U	1,4-Dichlorobenzene	13710.37
95-50-1	U	1,2-Dichlorobenzene	12975.88
100-51-6	U	Benzyl alcohol	9425.88
108-60-1	U	2,2-oxybis(1-Chloropropane)	17015.55
95-48-7	U	2-Methylphenol	15301.75
67-72-1	U	Hexachloroethane	13465.54
62-164-7	U	N-Nitrosodi-n-propylamine	12975.88
106-44-5	U	4-Methylphenol	16036.23
98-95-3	U	Nitrobenzene	10282.78
78-59-1	U	Isophorone	10894.85
88-75-5	U	2-Nitrophenol	12486.23
105-67-9	U	2,4-Dimethylphenol	31337.99
111-91-1	U	Bis(2-chloroethoxy)methane	10160.36
120-83-2	U	2,4-Dichlorophenol	9915.53
120-82-1	U	1,2,4-Trichlorobenzene	12363.81
91-20-3	20000	Naphthalene	11996.57
65-85-0	U	Benzoic acid	22769.00
106-47-8	U	4-Chloroaniline	8079.32
87-68-3	U	Hexachlorobutadiene	14077.61
91-57-6	120000	2-Methylnaphthalene	10405.19
59-50-7	U	4-Chloro-3-methylphenol	12241.40
77-47-4	U	Hexachlorocyclopentadiene	17137.96
88-06-2	U	2,4,6-Trichlorophenol	18362.10
95-95-4	U	2,4,5-Trichlorophenol	32929.37
91-58-7	U	2-Chloronaphthalene	11506.92
88-74-4	U	2-Nitroaniline	8691.39
208-96-8	U	Acenaphthylene	7467.25
131-11-3	U	Dimethyl phthalate	10405.19
606-20-2	U	2,6-Dinitrotoluene	11874.16
83-32-9	9500	Acenaphthene	7467.25

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SB-013-08

LAB ID: 9912/6135-006

PARENT ORDER NUMBER: 175218

<u>CAS NUMBER</u>		QUANT FACTOR :	0.00
	METHOD DETECTION LIMIT	<u>RESULTS</u> <u>µg/KG</u>	
99-09-2	3-Nitroaniline	13098.30	U
51-28-5	2,4-Dinitrophenol	11874.16	U
132-64-9	Dibenzofuran	12486.23	U
121-14-2	2,4-Dinitrotoluene	10037.95	U
100-02-7	4-Nitrophenol	24850.04	U
86-73-7	Fluorene	8936.22	41000
7005-72-3	4-Chlorophenyl phenyl ether	8324.15	U
84-66-2	Diethyl phthalate	9915.53	U
100-01-6	4-Nitroaniline	10282.78	U
534-52-1	4,6-Dinitro-2-methylphenol	20075.90	U
86-30-6	N-Nitrosodiphenylamine	11751.74	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	8691.39	U
101-55-3	4-Bromophenyl phenyl ether	8813.81	U
118-74-1	Hexachlorobenzene	8446.57	U
1912-24-9	Atrazine	36724.20	U
87-86-5	Pentachlorophenol	19953.48	U
85-01-8	Phenanthrene	7100.01	58000
120-12-7	Anthracene	9303.46	U
86-74-8	Carbazole	10894.85	U
15972-60-8	Alachlor	36724.20	U
84-74-2	Di-n-butyl phthalate	15668.99	U
206-44-0	Fluoranthene	7834.50	U
92-87-5	Benzidine	122414.00	U
129-00-0	Pyrene	9548.29	U
85-68-7	Butyl benzyl phthalate	4896.56	U
56-55-3	Benz(a)anthracene	8446.57	U
218-01-9	Chrysene	10772.43	U
91-94-1	3,3'-Dichlorobenzidine	14812.09	U
117-81-7	Bis(2-ethylhexyl)phthalate	15668.99	32000
117-84-0	Di-n-octyl phthalate	9303.46	U
205-99-2	Benzo(b)fluoranthene	17382.79	U
207-08-9	Benzo(k)fluoranthene	19831.07	U
50-32-8	Benzo(a)pyrene	7956.91	U
193-39-5	Indeno(1,2,3-cd)pyrene	9915.53	U
53-70-3	Dibenz(a,h)anthracene	6855.18	U
191-24-2	Benzo(g,h,i)perylene	10405.19	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Three

SAMPLE ID: SB-013-08  
LAB ID: 9912/6135-006  
PARENT ORDER NUMBER: 175218

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>METHOD DETECTION LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u> (Dry Weight Basis)
-------------------	---	--

SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
321-60-8	2-Fluorobiphenyl	0
367-12-4	2-Fluorophenol	0
4165-60-0	Nitrobenzene-d5	0
4165-62-2	Phenol-d5	0
1718-51-0	p-Terphenyl-d14	0
118-79-6	2,4,6-Tribromophenol	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/06/01 15:40  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
(314) 432-0550  
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PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-08

LAB ID: 9912/6135-006

PARENT ORDER NUMBER: 175218

QUANT FACTOR : 0.00

## PRACTICAL QUANTITATION

<u>CAS NUMBER</u>		<u>LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u> (Dry Weight Basis)
I2674-11-2	A-1016	245	433
1104-28-2	A-1221	245	U
11141-16-5	A-1232	245	U
53469-21-9	A-1242	245	U
12672-29-6	A-1248	245	U
11097-69-1	A-1254	245	U
11096-82-5	A-1260	245	1710

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	139
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	73

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 15:40  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
101 JOLLY ROAD, SUITE 100  
KEMOS, MI 48864

ATTN: LINDA KOROBKA

VOICE: 54383

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

AMPLE ID: SB-013-09  
AB ID: 9912006135-005  
DATE COLLECTED: 06/06/01 16:45  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<3.00 mg/Kg	06/20/01 J.T
TOTAL BARIUM	SW-846 6010A	65.2 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	3.71 B mg/Kg	
TOTAL LEAD	SW-846 6010A	4.90 B mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.200 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	81.6 mg/Kg	06/18/01 M.P
PH	SW-846 9045	7.680	06/12/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/12/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-09

LAB ID: 9912/6135-005

PARENT ORDER NUMBER: 175217

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	11.3	U
75-01-4	Vinyl chloride	2.3	U
74-83-9	Bromomethane	11.3	U
75-00-3	Chloroethane	11.3	U
75-69-04	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
67-64-1	Acetone	56.4	102 B
108-05-4	Vinyl Acetate	56.4	U
74-88-4	Methyl Iodide	11.3	U
75-15-0	Carbon disulfide	5.6	U
107-05-1	Allyl Chloride	5.6	U
75-05-8	Acetonitrile	5.6	U
75-09-2	Methylene chloride	5.6	U
107-13-1	Acrylonitrile	11.3	U
1634-04-4	Methyl tert butyl ether	2.3	U
156-60-5	trans-1,2-Dichloroethene	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
107-02-8	Acrolein	113	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
78-93-3	2-Butanone (MEK)	56.4	U
594-20-7	2,2-Dichloropropane	5.6	U
107-12-0	Proprionitrile	5.6	U
126-98-7	Methacrylonitrile	56.4	U
74-97-5	Bromoform	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
563-58-6	1,1-Dichloropropene	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
71-43-2	Benzene	2.3	3.7
79-01-6	Trichloroethene	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
80-62-6	Methyl Methacrylate	11.3	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL FORCES, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY' COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-09  
LAB ID: 9912/6135-005  
PARENT ORDER NUMBER: 175217

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT μg/Kg	RESULTS μg/Kg (Dry Weight Basis)
123-91-1	1,4-Dioxane	5.6	U
74-95-3	Dibromomethane	5.6	U
78-83-1	Isobutyl Alcohol	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-02-6	trans-1,3-Dichloropropene	4.5	U
108-10-1	4-Methyl-2-pentanone	56.4	U
76-46-9	2-Nitropropane	56.4	U
108-88-3	Toluene	5.6	U
10061-01-5	cis-1,3-Dichloropropene	4.5	U
97-63-2	Ethyl Methacrylate	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
142-28-9	1,3-Dichloropropane	5.6	U
591-78-6	2-Hexanone	56.4	U
124-48-1	Chlorodibromomethane	11.3	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
108-38-3	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
108-86-1	Bromobenzene	5.6	U
110-57-6	trans-1,4-Dichloro-2-butene	5.6	U
96-18-4	1,2,3-Trichloropropane	11.3	U
103-65-1	n-Propylbenzene	5.6	U
95-49-8	2-Chlorotoluene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
106-43-4	4-Chlorotoluene	5.6	U
98-06-6	t-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U

ROY F. WESTON, INC.  
2501 JOILY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL SCIENCES, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL.  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-09  
LAB ID: 9912/6135-005  
PARENT ORDER NUMBER: 175217

CAS NUMBER	PRACTICAL QUANTITATION		
	LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)	
99-87-6	p-Isopropyltoluene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-68-3	Hexachlorobutadiene	5.6	U
91-20-3	Naphthalene	11.3	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
110-75-8	2-Chloroethyl vinyl ether	5.6	U

SURROGATE RECOVERY RESULTS

	% RECOVERY
1,2-Dichloroethane-d4	95.2
4-Bromofluorobenzene	93.1
Dibromofluoromethane	99.6
Toluene-d8	99.6

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/20/01  
ANALYST: T.L.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SB-013-09

LAB ID: 9912/6135-005

PARENT ORDER NUMBER: 175217

ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

<u>CAS NUMBER</u>		QUANT FACTOR :	40.69
	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)	
110-86-1	Pyridine	87.47	U
62-75-9	n-Nitrosodimethylamine	63.47	U
62-53-3	Aniline	91.95	U
111-44-4	Bis(2-chloroethyl)ether	37.02	U
95-57-8	2-Chlorophenol	45.16	U
108-95-2	Phenol	34.18	U
541-73-1	1,3-Dichlorobenzene	47.19	U
106-46-7	1,4-Dichlorobenzene	45.57	U
95-50-1	1,2-Dichlorobenzene	43.13	U
100-51-6	Benzyl alcohol	31.33	U
108-60-1	2,2-oxybis(1-Chloropropane)	56.55	U
95-48-7	2-Methylphenol	50.86	U
67-72-1	Hexachloroethane	44.75	U
621-64-7	N-Nitrosodi-n-propylamine	43.13	U
106-44-5	4-Methylphenol	53.30	U
98-95-3	Nitrobenzene	34.18	U
78-59-1	Isophorone	36.21	U
88-75-5	2-Nitrophenol	41.50	U
105-67-9	2,4-Dimethylphenol	104.15	U
111-91-1	Bis(2-chloroethoxy)methane	33.77	U
120-83-2	2,4-Dichlorophenol	32.95	U
120-82-1	1,2,4-Trichlorobenzene	41.09	U
91-20-3	Naphthalene	39.87	U
65-85-0	Benzoic acid	75.67	U
106-47-8	4-Chloroaniline	26.85	U
87-68-3	Hexachlorobutadiene	46.79	U
91-57-6	2-Methylnaphthalene	34.58	U
59-50-7	4-Chloro-3-methylphenol	40.69	U
77-47-4	Hexachlorocyclopentadiene	56.96	U
88-06-2	2,4,6-Trichlorophenol	61.03	U
95-95-4	2,4,5-Trichlorophenol	109.44	U
91-58-7	2-Chloronaphthalene	38.24	U
88-74-4	2-Nitroaniline	28.89	U
208-96-8	Acenaphthylene	24.82	U
131-11-3	Dimethyl phthalate	34.58	U
606-20-2	2,6-Dinitrotoluene	39.46	U
83-32-9	Acenaphthene	24.82	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMOVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Two

SAMPLE ID: SB-013-09

LAB ID: 9912/6135-005

PARENT ORDER NUMBER: 175217

QUANT FACTOR : 0.00

### CAS NUMBER

### METHOD DETECTION LIMIT µg/KG

RESULTS  
µg/KG  
(Dry Weight Basis)

99-09-2	3-Nitroaniline	43.53	U
51-28-5	2,4-Dinitrophenol	39.46	U
132-64-9	Dibenzofuran	41.50	U
121-14-2	2,4-Dinitrotoluene	33.36	U
100-02-7	4-Nitrophenol	82.59	U
86-73-7	Fluorene	29.70	U
7005-72-3	4-Chlorophenyl phenyl ether	27.67	U
84-66-2	Diethyl phthalate	32.95	U
100-01-6	4-Nitroaniline	34.18	U
534-52-1	4,6-Dinitro-2-methylphenol	66.72	U
86-30-6	N-Nitrosodiphenylamine	39.06	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	28.89	U
101-55-3	4-Bromophenyl phenyl ether	29.29	U
118-74-1	Hexachlorobenzene	28.07	U
1912-24-9	Atrazine	122.06	U
87-86-5	Pentachlorophenol	66.32	U
85-01-8	Phenanthrene	23.60	U
120-12-7	Anthracene	30.92	U
86-74-8	Carbazole	36.21	U
15972-60-8	Alachlor	122.06	U
84-74-2	Di-n-butyl phthalate	52.08	U
206-44-0	Fluoranthene	26.04	U
92-87-5	Benzidine	406.85	U
129-00-0	Pyrene	31.73	U
85-68-7	Butyl benzyl phthalate	16.27	U
56-55-3	Benz(a)anthracene	28.07	U
218-01-9	Chrysene	35.80	U
91-94-1	3,3'-Dichlorobenzidine	49.23	U
117-81-7	Bis(2-ethylhexyl)phthalate	52.08	U
117-84-0	Di-n-octyl phthalate	30.92	U
205-99-2	Benzo(b)fluoranthene	57.77	U
207-08-9	Benzo(k)fluoranthene	65.91	U
50-32-8	Benzo(a)pyrene	26.45	U
193-39-5	Indeno(1,2,3-cd)pyrene	32.95	U
53-70-3	Dibenz(a,h)anthracene	22.78	U
191-24-2	Benzo(g,h,i)perylene	34.58	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Three

SAMPLE ID: SB-013-09

LAB ID: 9912/6135-005

PARENT ORDER NUMBER: 175217

QUANT FACTOR : 0.00

CAS NUMBER

METHOD DETECTION

LIMIT

PP/KG

RESULTS

PP/KG

(Dry Weight Basis)

SURROGATE RECOVERY RESULTS

<u>CAS NUMBER</u>		<u>% RECOVERY</u>
321-60-8	2-Fluorobiphenyl	73
367-12-4	2-Fluorophenol	63
4165-60-0	Nitrobenzene-d5	71
4165-62-2	Phenol-d5	69
1718-51-0	p-Terphenyl-d14	79
118-79-6	2,4,6-Tribromophenol	73

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/06/01 16:45  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: --

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-09

LAB ID: 9912/6135-005

PARENT ORDER NUMBER: 175217

QUANT FACTOR : 0.00

## PRACTICAL QUANTITATION

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION <u>LIMIT</u> <u>ng/KG</u>	<u>RESULTS</u> <u>ng/KG</u> (Dry Weight Basis)	
		U	U
12674-11-2	A-1016	41	U
1104-28-2	A-1221	41	U
11141-16-5	A-1232	41	U
53469-21-9	A-1242	41	U
12672-29-6	A-1248	41	U
11097-69-1	A-1254	41	U
11096-82-5	A-1260	41	U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	98
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	73

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 16:45  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
COKEMOS, MI 48864

ATTN: LINDA KOROBKA

VOICE: 54383  
PO: ---  
PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SB-013-10  
AB ID: 9912006135-012  
DATE COLLECTED: 06/07/01 08:54  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	<5 mg/Kg	06/18/01 M.P

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-10

LAB ID: 9912/6135-012

PARENT ORDER NUMBER: 175239

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION		<u>RESULTS</u> <u>ug/KG</u> (Dry Weight Basis)
		LIMIT	<u>ug/KG</u>	
12674-11-2	A-1016	46		U
1104-28-2	A-1221	46		U
11141-16-5	A-1232	46		U
53469-21-9	A-1242	46		U
12672-29-6	A-1248	46		U
11097-69-1	A-1254	46		U
11096-82-5	A-1260	46		U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	105
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	81

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 08:54  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SB-013-11  
LAB ID: 9912006135-011  
DATE COLLECTED: 06/07/01 09:08  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	24.4 B mg/Kg	06/20/01 J.T
TOTAL BARIUM	SW-846 6010A	254 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	2.14 B mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	62.7 mg/Kg	
TOTAL LEAD	SW-846 6010A	353 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.600 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	23.4 mg/Kg	06/18/01 M.P
PH	SW-846 9045	7.660	06/11/01 A.V
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/11/01 A.V

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-11

LAB ID: 9912/6135-011

PARENT ORDER NUMBER: 175238

QUANT FACTOR :

312.93

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION LIMIT <u>µg/Kg</u>	RESULTS <u>µg/Kg</u> (Dry Weight Basis)	
		U	U
75-71-8	Dichlorodifluoromethane	1565	U
74-87-3	Chloromethane	3129	U
75-01-4	Vinyl chloride	1565	U
74-83-9	Bromomethane	1565	U
75-00-3	Chloroethane	1565	U
75-69-04	Trichlorofluoromethane	1565	U
75-35-4	1,1-Dichloroethene	1565	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1565	U
67-64-1	Acetone	6259	U
108-05-4	Vinyl Acetate	3129	U
74-88-4	Methyl Iodide	1565	U
75-15-0	Carbon disulfide	3129	U
107-05-1	Allyl Chloride	1565	U
75-05-8	Acetonitrile	3129	U
75-09-2	Methylene chloride	6259	980J B
107-13-1	Acrylonitrile	3129	U
1634-04-4	Methyl tert butyl ether	3129	U
156-60-5	trans-1,2-Dichloroethene	1565	U
75-34-3	1,1-Dichloroethane	1565	U
107-02-8	Acrolein	3129	U
156-59-2	cis-1,2-Dichloroethene	1565	U
78-93-3	2-Butanone (MEK)	1565	U
594-20-7	2,2-Dichloropropane	1565	U
107-12-0	Propionitrile	1565	U
126-98-7	Methacrylonitrile	1565	U
74-97-5	Bromochloromethane	1565	U
67-66-3	Chloroform	1565	U
71-55-6	1,1,1-Trichloroethane	1565	U
563-58-6	1,1-Dichloropropene	1565	U
56-23-5	Carbon tetrachloride	1565	U
107-06-2	1,2-Dichloroethane	1565	U
71-43-2	Benzene	1565	U
79-01-6	Trichloroethene	1565	U
78-87-5	1,2-Dichloropropane	1565	U
80-62-6	Methyl Methacrylate	1565	U
123-91-1	1,4-Dioxane	1565	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-11

LAB ID: 9912/6135-011

PARENT ORDER NUMBER: 175238

QUANT FACTOR : 0.00

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>ng/Kg</u>	RESULTS <u>ng/Kg</u> (Dry Weight Basis)
74-95-3	1565	U
78-83-1	3129	U
75-27-4	1565	U
10061-02-6	1565	U
108-10-1	3129	U
76-46-9	3129	U
108-88-3	1565	U
10061-01-5	1565	U
97-63-2	1565	U
79-00-5	1565	U
127-18-4	1565	21000
142-28-9	1565	U
591-78-6	3129	U
124-48-1	1565	U
106-93-4	1565	U
108-90-7	1565	U
630-20-6	1565	U
100-41-4	1565	U
108-38-3	1565	U
95-47-6	1565	U
100-42-5	1565	U
75-25-2	1565	U
98-82-8	1565	U
79-34-5	1565	U
108-86-1	1565	U
110-57-6	1565	U
96-18-4	1565	U
103-65-1	1565	U
95-49-8	1565	U
108-67-8	1565	U
106-43-4	1565	U
98-06-6	1565	U
95-63-6	1565	710J
135-98-8	1565	U
541-73-1	1565	U
99-87-6	1565	U
106-46-7	1565	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SB-013-11

LAB ID: 9912/6135-011

PARENT ORDER NUMBER: 175238

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION <u>LIMIT</u> <u>ug/Kg</u>	<u>RESULTS</u>	
		<u>ug/Kg</u>	(Dry Weight Basis)
95-50-1	1,2-Dichlorobenzene	1565	U
104-51-8	n-Butylbenzene	1565	U
96-12-8	1,2-Dibromo-3-chloropropane	1565	U
120-82-1	1,2,4-Trichlorobenzene	1565	U
87-68-3	Hexachlorobutadiene	3129	U
91-20-3	Naphthalene	3129	1700J B
87-61-6	1,2,3-Trichlorobenzene	1565	U
110-75-8	2-Chloroethyl vinyl ether	3129	U

## SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	103
17060-07-0	1,2-Dichloroethane-d4	102
2037-26-5	Toluene-d8	101

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 09:08  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/20/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL TESTS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SB-013-11  
LAB ID: 9912/6135-013  
PARENT ORDER NUMBER: 175240

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT ug/Kg	RESULTS ug/Kg (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	9.6	U
74-87-3	Chloromethane	10.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	10.0	U
75-00-3	Chloroethane	10.0	U
75-69-04	Trichlorofluoromethane	9.6	U
75-35-4	1,1-Dichloroethene	9.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9.6	U
67-64-1	Acetone	49.9	129
108-05-4	Vinyl Acetate	49.9	U
74-88-4	Methyl Iodide	10.0	U
75-15-0	Carbon disulfide	9.6	U
107-05-1	Allyl Chloride	9.6	U
75-05-8	Acetonitrile	9.6	U
75-09-2	Methylene chloride	9.6	14.8
107-13-1	Acrylonitrile	10.0	U
1634-04-4	Methyl tert butyl ether	2.0	U
156-60-5	trans-1,2-Dichloroethene	9.6	U
75-34-3	1,1-Dichloroethane	9.6	U
107-02-8	Acrolein	99.8	U
156-59-2	cis-1,2-Dichloroethene	9.6	U
78-93-3	2-Butanone (MEK)	49.9	U
594-20-7	2,2-Dichloropropane	9.6	U
107-12-0	Propronitrite	9.6	U
126-98-7	Methacrylonitrile	49.9	U
74-97-5	Bromoform	9.6	U
67-66-3	Chloroform	9.6	U
71-55-6	1,1,1-Trichloroethane	9.6	U
563-58-6	1,1-Dichloropropene	9.6	U
56-23-5	Carbon tetrachloride	9.6	U
107-06-2	1,2-Dichloroethane	9.6	U
71-43-2	Benzene	2.0	14.4
79-01-6	Trichloroethene	9.6	14.7
78-87-5	1,2-Dichloropropane	9.6	U
80-62-6	Methyl Methacrylate	10.0	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-02  
LAB ID: 9912/6102-016

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION		<u>RESULTS</u> <u>ng/L</u> (Dry Weight Basis)
		LIMIT	<u>ng/L</u>	
(1)	110-75-8	2-Chloroethyl vinyl ether	10000	U
(2)	75-09-2	Methylene chloride	100000	320000

SURROGATE RECOVERY RESULTS

			% RECOVERY
(1)	460-00-4	4-Bromofluorobenzene	101
(1)	17060-07-0	1,2-Dichloroethane-d4	92
(1)	2037-26-5	Toluene-d8	96
(2)	460-00-4	4-Bromofluorobenzene	102
(2)	17060-07-0	1,2-Dichloroethane-d4	104
(2)	2037-26-5	Toluene-d8	99

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 17:04  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/18/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL TESTS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL.  
METHOD 8260IX  
PAGE TWO

SAMPLE ID: SS-013-03  
LAB ID: 9912/6102-003  
PARENT ORDER NUMBER: 171071

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)
123-91-1	1,4-Dioxane	6.1	0
74-95-3	Dibromomethane	6.1	0
78-83-1	Isobutyl Alcohol	6.1	0
75-27-4	Bromodichloromethane	6.1	0
10061-02-6	trans-1,3-Dichloropropene	4.9	0
108-10-1	4-Methyl-2-pentanone	60.7	0
76-46-9	2-Nitropropane	60.7	0
108-88-3	Toluene	6.1	0
10061-01-5	cis-1,3-Dichloropropene	4.9	0
97-63-2	Ethyl Methacrylate	6.1	0
79-00-5	1,1,2-Trichloroethane	6.1	0
127-18-4	Tetrachloroethene	6.1	6.5
142-28-9	1,3-Dichloropropane	6.1	0
591-78-6	2-Hexanone	60.7	0
124-48-1	Chlorodibromomethane	12.1	0
106-93-4	1,2-Dibromoethane	6.1	0
108-90-7	Chlorobenzene	6.1	0
630-20-6	1,1,1,2-Tetrachloroethane	6.1	0
100-41-4	Ethylbenzene	6.1	0
108-38-3	m&p-Xylene	6.1	0
95-47-6	o-Xylene	6.1	0
100-42-5	Styrene	6.1	0
75-25-2	Bromoform	6.1	0
98-82-8	Isopropylbenzene	6.1	0
79-34-5	1,1,2,2-Tetrachloroethane	6.1	0
108-86-1	Bromobenzene	6.1	0
110-57-6	trans-1,4-Dichloro-2-butene	6.1	0
96-18-4	1,2,3-Trichloropropane	12.1	0
103-65-1	n-Propylbenzene	6.1	0
95-49-8	2-Chlorotoluene	6.1	0
108-67-8	1,3,5-Trimethylbenzene	6.1	0
106-43-4	4-Chlorotoluene	6.1	0
98-06-6	t-Butylbenzene	6.1	0
95-63-6	1,2,4-Trimethylbenzene	6.1	0
135-98-8	sec-Butylbenzene	6.1	0
541-73-1	i,3-Dichlorobenzene	6.1	0

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL METRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SB-013-11  
LAB ID: 9912/6135-013  
PARENT ORDER NUMBER: 175240

CAS NUMBER		PRACTICAL QUANTITATION	RESULTS µg/Kg (Dry Weight Basis)
		LIMIT µg/Kg	
123-91-1	1,4-Dioxane	9.6	U
74-95-3	Dibromomethane	9.6	U
78-83-1	Isobutyl Alcohol	9.6	U
75-27-4	Bromodichloromethane	9.6	U
10061-02-6	trans-1,3-Dichloropropene	7.7	U
108-10-1	4-Methyl-2-pentanone	95.6	U
76-46-9	2-Nitropropane	95.6	U
108-88-3	Toluene	9.6	22.5 B
10061-01-5	cis-1,3-Dichloropropene	7.7	U
97-63-2	Ethyl Methacrylate	9.6	U
79-00-5	1,1,2-Trichloroethane	9.6	U
127-18-4	Tetrachloroethene	9.6	U
142-28-9	1,3-Dichloropropane	9.6	U
591-78-6	2-Hexanone	95.6	U
124-48-1	Chlorodibromomethane	19.1	U
106-93-4	1,2-Dibromoethane	9.6	U
108-90-7	Chlorobenzene	9.6	U
630-20-6	1,1,1,2-Tetrachloroethane	9.6	U
100-41-4	Ethylbenzene	9.6	U
108-38-3	m&p-Xylene	9.6	U
95-47-6	o-Xylene	9.6	U
100-42-5	Styrene	9.6	U
75-25-2	Bromoform	9.6	U
98-82-8	Isopropylbenzene	9.6	U
79-34-5	1,1,2,2-Tetrachloroethane	9.6	U
108-86-1	Bromobenzene	9.6	U
110-57-6	trans-1,4-Dichloro-2-butene	9.6	U
96-18-4	1,2,3-Trichloropropane	19.1	U
103-65-1	n-Propylbenzene	9.6	U
95-49-8	2-Chlorotoluene	9.6	U
108-67-8	1,3,5-Trimethylbenzene	9.6	U
106-43-4	4-Chlorotoluene	9.6	U
98-06-6	t-Butylbenzene	9.6	U
95-63-6	1,2,4-Trimethylbenzene	9.6	U
135-98-8	sec-Butylbenzene	9.6	U
541-73-1	1,3-Dichlorobenzene	9.6	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMENTAL SCIENCES, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 6260IX  
PAGE Three

SAMPLE ID: SR-013-11  
LAB ID: 9912/6135-013  
PARENT ORDER NUMBER: 175240

CAS NUMBER	PRACTICAL QUANTITATION		RESULTS µg/Kg (Dry Weight Basis)
	LIMIT µg/Kg		
99-87-6	p-Isopropyltoluene	9.6	U
106-46-7	1,4-Dichlorobenzene	9.6	U
95-50-1	1,2-Dichlorobenzene	9.6	U
104-51-8	n-Butylbenzene	9.6	U
96-12-8	1,2-Dibromo-3-chloropropane	9.6	U
120-82-1	1,2,4-Trichlorobenzene	9.6	U
87-68-3	Hexachlorobutadiene	9.6	U
91-20-3	Naphthalene	19.1	U
87-61-6	1,2,3-Trichlorobenzene	9.6	U
110-75-8	2-Chloroethyl vinyl ether	9.6	U

SURROGATE RECOVERY RESULTS

	% RECOVERY
1,2-Dichloroethane-d4	102
4-Bromofluorobenzene	91.8
Dibromofluoromethane	103
Toluene-d8	97.0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/21/01  
ANALYST: T.L.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SB-013-11

LAB ID: 9912/6135-011

PARENT ORDER NUMBER: 175237

CAS NUMBER	METHOD DETECTION LIMIT <u>ug/KG</u>	QUANT FACTOR :	RESULTS <u>ug/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	448.53	U
62-75-9	n-Nitrosodimethylamine	325.45	U
62-53-3	Aniline	471.48	U
111-44-4	Bis(2-chloroethyl)ether	189.84	U
95-57-8	2-Chlorophenol	231.57	U
108-95-2	Phenol	175.24	U
541-73-1	1,3-Dichlorobenzene	242.00	U
106-46-7	1,4-Dichlorobenzene	233.65	U
95-50-1	1,2-Dichlorobenzene	221.14	U
100-51-6	Benzyl alcohol	160.64	U
108-60-1	2,2-oxybis(1-Chloropropane)	289.98	U
95-48-7	2-Methylphenol	260.78	U
67-72-1	Hexachloroethane	229.48	U
621-64-7	N-Nitrosodi-n-propylamine	221.14	U
106-44-5	4-Methylphenol	273.29	U
98-95-3	Nitrobenzene	175.24	U
78-59-1	Isophorone	185.67	U
88-75-5	2-Nitrophenol	212.79	U
105-67-9	2,4-Dimethylphenol	534.07	U
111-91-1	Bis(2-chloroethoxy)methane	173.15	U
120-83-2	2,4-Dichlorophenol	168.98	U
120-82-1	1,2,4-Trichlorobenzene	210.71	U
91-20-3	Naphthalene	204.45	U
65-85-0	Benzoic acid	388.03	U
106-47-8	4-Chloroaniline	137.69	U
87-68-3	Hexachlorobutadiene	239.91	U
91-57-6	2-Methylnaphthalene	177.33	U
59-50-7	4-Chloro-3-methylphenol	208.62	U
77-47-4	Hexachlorocyclopentadiene	292.07	U
88-06-2	2,4,6-Trichlorophenol	312.93	U
95-95-4	2,4,5-Trichlorophenol	561.19	U
91-58-7	2-Chloronaphthalene	196.10	U
88-74-4	2-Nitroaniline	148.12	U
208-96-8	Acenaphthylene	127.26	U
131-11-3	Dimethyl phthalate	177.33	U
606-20-2	2,6-Dinitrotoluene	202.36	U
83-32-9	Acenaphthene	127.26	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SB-013-11

LAB ID: 9912/6135-011

PARENT ORDER NUMBER: 175237

QUANT FACTOR : 0.00

CAS NUMBER	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)
		U
99-09-2	3-Nitroaniline	223.22
51-28-5	2,4-Dinitrophenol	202.36
132-64-9	Dibenzofuran	212.79
121-14-2	2,4-Dinitrotoluene	171.07
100-02-7	4-Nitrophenol	423.50
86-73-7	Fluorene	152.29
7005-72-3	4-Chlorophenyl phenyl ether	141.86
84-66-2	Diethyl phthalate	168.98
100-01-6	4-Nitroaniline	175.24
534-52-1	4,6-Dinitro-2-methylphenol	342.14
86-30-6	N-Nitrosodiphenylamine	200.28
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	148.12
101-55-3	4-Bromophenyl phenyl ether	150.21
118-74-1	Hexachlorobenzene	143.95
1912-24-9	Atrazine	625.86
87-86-5	Pentachlorophenol	340.05
85-01-8	Phenanthrene	121.00
120-12-7	Anthracene	158.55
86-74-8	Carbazole	185.67
15972-60-8	Alachlor	625.86
84-74-2	Di-n-butyl phthalate	267.03
206-44-0	Fluoranthene	133.52
92-87-5	Benzidine	2086.20
129-00-0	Pyrene	162.72
85-68-7	Butyl benzyl phthalate	83.45
56-55-3	Benz(a)anthracene	143.95
218-01-9	Chrysene	183.59
91-94-1	3,3'-Dichlorobenzidine	252.43
117-81-7	Bis(2-ethylhexyl)phthalate	267.03
117-84-0	Di-n-octyl phthalate	158.55
205-99-2	Benzo(b)fluoranthene	296.24
207-08-9	Benzo(k)fluoranthene	337.96
50-32-8	Benzo(a)pyrene	135.60
193-39-5	Iproto(1,2,3-cd)pyrene	168.98
53-70-3	Dibenz(a,h)anthracene	116.83
191-24-2	Benzo(g,h,i)perylene	177.33

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Three

SAMPLE ID: SB-013-11  
LAB ID: 9912/6135-011  
PARENT ORDER NUMBER: 175237

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	METHOD DETECTION LIMIT <u>PP/KG</u>	RESULTS <u>PP/KG</u> (Dry Weight Basis)

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
321-60-8	2-Fluorobiphenyl	92
367-12-4	2-Fluorophenol	40
4165-60-0	Nitrobenzene-d5	66
4165-62-2	Phenol-d5	54
1718-51-0	p-Terphenyl-d14	83
118-79-6	2,4,6-Tribromophenol	57

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/07/01 09:08  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SB-013-11

LAB ID: 9912/6135-011

PARENT ORDER NUMBER: 175237

QUANT FACTOR : 0.00

## PRACTICAL QUANTITATION

LIMIT  
µg/KG

RESULTS  
µg/KG  
(Dry Weight Basis)

### CAS NUMBER

12674-11-2	A-1016	42	186
1104-28-2	A-1221	42	U
11141-16-5	A-1232	42	U
53469-21-9	A-1242	42	U
12672-29-6	A-1248	42	U
11097-69-1	A-1254	42	U
11096-82-5	A-1260	42	258

## SURROGATE RECOVERY RESULTS

% RECOVERY  
82

877-09-8      2,4,5,6-Tetrachloro-meta-xylene  
(TCMX)

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01      09:08  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: --

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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PCB  
METHOD 8082  
PAGE One

SAMPLE ID: GW-013-06

LAB ID: 9912/6135-003

PARENT ORDER NUMBER: 175211

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>A-1016</u>	<u>PRACTICAL QUANTITATION</u>	
		<u>LIMIT</u> <u>ng/L</u>	<u>RESULTS</u> <u>ng/L</u>
12674-11-2	A-1016	1.00	U
1104-28-2	A-1221	1.00	U
11141-16-5	A-1232	1.00	U
53469-21-9	A-1242	1.00	U
12672-29-6	A-1248	1.00	U
11097-69-1	A-1254	1.00	U
11096-82-5	A-1260	1.00	U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	87
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	86

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/16/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: GW-013-07  
LAB ID: 9912006135-004  
DATE COLLECTED: 06/06/01 17:32  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/12/01 M.U
PH (ELECTROMETRIC)	SW-846 9040	6.760	06/11/01 A.V

\* = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-07

LAB ID: 9912/6135-004

PARENT ORDER NUMBER: 175213

QUANT FACTOR : 1.00

PRACTICAL QUANTITATION

LIMIT  
ng/L

RESULTS  
ng/L  
(Dry Weight Basis)

CAS NUMBER

75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-04	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
67-64-1	Acetone	20	U
108-05-4	Vinyl Acetate	10	U
74-88-4	Methyl Iodide	5	U
75-15-0	Carbon disulfide	10	U
107-05-1	Allyl Chloride	5	U
75-05-8	Acetonitrile	10	U
75-09-2	Methylene chloride	20	8.7J
107-13-1	Acrylonitrile	10	U
1634-04-4	Methyl tert butyl ether	10	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	3.1J
107-02-8	Acrolein	10	U
156-59-2	cis-1,2-Dichloroethene	5	5.5
78-93-3	2-Butanone (MEK)	5	U
594-20-7	2,2-Dichloropropane	5	U
107-12-0	Propionitrile	5	U
126-98-7	Methacrylonitrile	5	U
74-97-5	Bromoform	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	4.4J
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	7.6
78-87-5	1,2-Dichloropropane	5	U
80-62-6	Methyl Methacrylate	5	U
123-91-1	1,4-Dioxane	5	U

JOY F. WESTON, INC.  
101 JOLLY ROAD, SUITE 100  
EMOS, MI 48864

ATTN: LINDA KOROBKA

VOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: GW-013-01  
AB ID: 9912006102-015  
DATE COLLECTED: 06/05/01 14:45  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<0.030 mg/L	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	0.278 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/L	
TOTAL CHROMIUM	SW-846 6010A	<0.005 mg/L	
TOTAL LEAD	SW-846 6010A	<0.044 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.047 mg/L	
TOTAL SILVER	SW-846 6010A	<0.006 mg/L	
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/07/01 M.U

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## VOLATILE ORGANIC COMPOUNDS CAPILLARY COL

METHOD 8260IX

PAGE One

SAMPLE ID: GW-013-01

LAB ID: 9912/6102-015

PARENT ORDER NUMBER: 175090

QUANT FACTOR :

5000.00

### PRACTICAL QUANTITATION

LIMIT

ug/L

RESULTS

ug/L

#### CAS NUMBER

75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	50000	U
75-01-4	Vinyl chloride	25000	U
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-04	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	100000	U
108-05-4	Vinyl Acetate	50000	U
74-88-4	Methyl Iodide	25000	U
75-15-0	Carbon disulfide	50000	U
107-05-1	Allyl Chloride	25000	U
75-05-8	Acetonitrile	50000	U
75-09-2	Methylene chloride	100000	21000J
107-13-1	Acrylonitrile	50000	U
1634-04-4	Methyl tert butyl ether	50000	U
156-60-5	trans-1,2-Dichloroethene	25000	U
75-34-3	1,1-Dichloroethane	25000	U
107-02-8	Acrolein	50000	U
156-59-2	cis-1,2-Dichloroethene	25000	34000
78-93-3	2-Butanone (MEK)	25000	U
594-20-7	2,2-Dichloropropane	25000	U
107-12-0	Propionitrile	25000	U
126-98-7	Methacrylonitrile	25000	U
74-97-5	Bromochloromethane	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	140000
563-58-6	1,1-Dichloropropene	25000	U
56-23-5	Carbon tetrachloride	25000	U
107-06-2	1,2-Dichloroethane	25000	U
71-43-2	Benzene	25000	U
79-01-6	Trichloroethene	25000	110000
78-87-5	1,2-Dichloropropane	25000	U
80-62-6	Methyl Methacrylate	25000	U
123-91-1	1,4-Dioxane	25000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-01

LAB ID: 9912/6102-015

PARENT ORDER NUMBER: 175090

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		<b>PRACTICAL QUANTITATION</b>	<u>RESULTS</u>
		<u>LIMIT</u> <u>µg/L</u>	
74-95-3	Dibromomethane	25000	U
78-83-1	Isobutyl Alcohol	50000	U
75-27-4	Bromodichloromethane	25000	U
10061-02-6	trans-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	50000	U
76-46-9	2-Nitropropane	50000	U
108-88-3	Toluene	25000	95000
10061-01-5	cis-1,3-Dichloropropene	25000	U
97-63-2	Ethyl Methacrylate	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	25000	U
142-28-9	1,3-Dichloropropane	25000	U
591-78-6	2-Hexanone	50000	U
124-48-1	Chlorodibromomethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	25000	U
630-20-6	1,1,1,2-Tetrachloroethane	25000	U
100-41-4	Ethylbenzene	25000	U
108-38-3	m&p-Xylene	25000	11000J
95-47-6	o-Xylene	25000	U
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	25000	U
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
108-86-1	Bromobenzene	25000	U
110-57-6	trans-1,4-Dichloro-2-butene	25000	U
96-18-4	1,2,3-Trichloropropane	25000	U
103-65-1	n-Propylbenzene	25000	U
95-49-8	2-Chlorotoluene	25000	U
108-67-8	1,3,5-Trimethylbenzene	25000	U
106-43-4	4-Chlorotoluene	25000	U
98-06-6	t-Butylbenzene	25000	U
95-63-6	1,2,4-Trimethylbenzene	25000	U
135-98-8	sec-Butylbenzene	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
99-87-6	p-Isopropyltoluene	25000	U
106-46-7	1,4-Dichlorobenzene	25000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-01

LAB ID: 9912/6102-015

PARENT ORDER NUMBER: 175090

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION	<u>RESULTS</u> <u>µg/L</u>
		LIMIT <u>µg/L</u>	
95-50-1	1,2-Dichlorobenzene	25000	U
104-51-8	n-Butylbenzene	25000	U
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	25000	U
87-68-3	Hexachlorobutadiene	50000	U
91-20-3	Naphthalene	50000	U
87-61-6	1,2,3-Trichlorobenzene	25000	U
110-75-8	2-Chloroethyl vinyl ether	50000	U

## SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	99
17060-07-0	1,2-Dichloroethane-d4	88
2037-26-5	Toluene-d8	96

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 14:45  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/18/01  
ANALYST: R.R.

OY F. WESTON, INC.  
101 JOLLY ROAD, SUITE 100  
LEMOS, MI 48864

TTN: LINDA KOROBKA

VOICE: 54369

O: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

AMPLE ID: GW-013-02  
B ID: 9912006102-016  
ATE COLLECTED: 06/05/01 17:04  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<0.030 mg/L	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	0.073 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.004 mg/L	
TOTAL CHROMIUM	SW-846 6010A	<0.005 mg/L	
TOTAL LEAD	SW-846 6010A	<0.044 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	0.200 B mg/L	
TOTAL SILVER	SW-846 6010A	<0.006 mg/L	
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-02  
LAB ID: 9912/6102-016

PRACTICAL QUANTITATION

LIMIT  
ng/L

RESULTS  
ng/L

(Dry Weight Basis)

CAS NUMBER

(1)	75-71-8	Dichlorodifluoromethane	5000	U
(1)	74-87-3	Chloromethane	10000	U
(1)	75-01-4	Vinyl chloride	5000	U
(1)	74-83-9	Bromomethane	5000	U
(1)	75-00-3	Chloroethane	5000	U
(1)	75-69-04	Trichlorofluoromethane	5000	U
(1)	75-35-4	1,1-Dichloroethene	5000	3900J
(1)	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U
(1)	67-64-1	Acetone	20000	14000J
(1)	108-05-4	Vinyl Acetate	10000	U
(1)	74-88-4	Methyl Iodide	5000	U
(1)	75-15-0	Carbon disulfide	10000	U
(1)	107-05-1	Allyl Chloride	5000	U
(1)	75-05-8	Acetonitrile	10000	U
(1)	107-13-1	Acrylonitrile	10000	U
(1)	1634-04-4	Methyl tert butyl ether	10000	U
(1)	156-60-5	trans-1,2-Dichloroethene	5000	U
(1)	75-34-3	1,1-Dichloroethane	5000	15000
(1)	107-02-8	Acrolein	10000	U
(1)	156-59-2	cis-1,2-Dichloroethene	5000	31000
(1)	78-93-3	2-Butanone (MEK)	5000	39000
(1)	594-20-7	2,2-Dichloropropane	5000	U
(1)	107-12-0	Propionitrile	5000	U
(1)	126-98-7	Methacrylonitrile	5000	U
(1)	74-97-5	Bromochloromethane	5000	U
(1)	67-66-3	Chloroform	5000	79000
(1)	71-55-6	1,1,1-Trichloroethane	5000	150000
(1)	563-58-6	1,1-Dichloropropene	5000	U
(1)	56-23-5	Carbon tetrachloride	5000	U
(1)	107-06-2	1,2-Dichloroethane	5000	40000
(1)	71-43-2	Benzene	5000	21000
(1)	79-01-6	Trichloroethene	5000	60000
(1)	78-87-5	1,2-Dichloropropane	5000	U
(1)	80-62-6	Methyl Methacrylate	5000	U
(1)	123-91-1	1,4-Dioxane	5000	U
(1)	74-95-3	Dibromomethane	5000	U
(1)	78-83-1	Isobutyl Alcohol	10000	U
(1)	75-27-4	Bromodichloromethane	5000	U
(1)	10061-02-6	trans-1,3-Dichloropropene	5000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-02  
LAB ID: 9912/6102-016

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION		<u>RESULTS</u> <u>µg/L</u> (Dry Weight Basis)
		<u>LIMIT</u> <u>µg/L</u>		
(1)	108-10-1	4-Methyl-2-pentanone	10000	42000
(1)	76-46-9	2-Nitropropane	10000	U
(1)	108-88-3	Toluene	5000	48000
(1)	10061-01-5	cis-1,3-Dichloropropene	5000	U
(1)	97-63-2	Ethyl Methacrylate	5000	U
(1)	79-00-5	1,1,2-Trichloroethane	5000	98000
(1)	127-18-4	Tetrachloroethene	5000	5700
(1)	142-28-9	1,3-Dichloropropane	5000	3200J
(1)	591-78-6	2-Hexanone	10000	U
(1)	124-48-1	Chlorodibromomethane	5000	U
(1)	106-93-4	1,2-Dibromoethane	5000	U
(1)	108-90-7	Chlorobenzene	5000	9950
(1)	630-20-6	1,1,1,2-Tetrachloroethane	5000	4600J
(1)	100-41-4	Ethylbenzene	5000	3600J
(1)	108-38-3	m&p-Xylene	5000	11000
(1)	95-47-6	o-Xylene	5000	2900J
(1)	100-42-5	Styrene	5000	U
(1)	75-25-2	Bromoform	5000	U
(1)	98-82-8	Isopropylbenzene	5000	U
(1)	79-34-5	1,1,2,2-Tetrachloroethane	5000	28000
(1)	108-86-1	Bromobenzene	5000	U
(1)	110-57-6	trans-1,4-Dichloro-2-butene	5000	U
(1)	96-18-4	1,2,3-Trichloropropane	5000	3500J
(1)	103-65-1	n-Propylbenzene	5000	U
(1)	95-49-8	2-Chlorotoluene	5000	U
(1)	108-67-8	1,3,5-Trimethylbenzene	5000	U
(1)	106-43-4	4-Chlorotoluene	5000	U
(1)	98-06-6	t-Butylbenzene	5000	U
(1)	95-63-6	1,2,4-Trimethylbenzene	5000	U
	135-98-8	sec-Butylbenzene	5000	U
	541-73-1	1,3-Dichlorobenzene	5000	U
	99-87-6	p-Isopropyltoluene	5000	U
	106-46-7	1,4-Dichlorobenzene	5000	U
	5-50-1	1,2-Dichlorobenzene	5000	U
	-51-8	n-Butylbenzene	5000	U
	-8	1,2-Dibromo-3-chloropropane	5000	U
		1,2,4-Trichlorobenzene	5000	U
		Hexachlorobutadiene	10000	U
		Naphthalene	10000	U
		1,2,3-Trichlorobenzene	5000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: GW-013-06

LAB ID: 9912/6135-003

PARENT ORDER NUMBER: 175211

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>µg/L</u>	<u>RESULTS</u> <u>µg/L</u>
12674-11-2	A-1016	1.00	U
1104-28-2	A-1221	1.00	U
11141-16-5	A-1232	1.00	U
53469-21-9	A-1242	1.00	U
12672-29-6	A-1248	1.00	U
11097-69-1	A-1254	1.00	U
11096-82-5	A-1260	1.00	U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	87
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	86

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/16/01  
ANALYST: J.K.

— ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

— ATTN: LINDA KOROBKA

INVOICE: 54383  
PO: ---

— PROJECT NO: 0105-013

**ENVIRONMETRICS, INC.**  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

**ANALYSIS RESULTS**

SAMPLE ID: GW-013-07  
LAB ID: 9912006135-004  
DATE COLLECTED: 06/06/01 17:32  
DATE RECEIVED: 06/07/01

<b><u>TEST PERFORMED</u></b>	<b><u>METHOD OF ANALYSIS</u></b>	<b><u>RESULTS</u></b>	<b><u>ANALYST</u></b>
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/12/01 M.U.
PH (ELECTROMETRIC)	SW-846 9040	6.760	06/11/01 A.V.

{ = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-07  
LAB ID: 9912/6135-004  
PARENT ORDER NUMBER: 175213

QUANT FACTOR : 1.00

PRACTICAL QUANTITATION

LIMIT  
ug/L

RESULTS  
ug/L  
(Dry Weight Basis)

CAS NUMBER

75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-04	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
67-64-1	Acetone	20	U
108-05-4	Vinyl Acetate	10	U
74-88-4	Methyl Iodide	5	U
75-15-0	Carbon disulfide	10	U
107-05-1	Allyl Chloride	5	U
75-05-8	Acetonitrile	10	U
75-09-2	Methylene chloride	20	8.7J
107-13-1	Acrylonitrile	10	U
1634-04-4	Methyl tert butyl ether	10	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	3.1J
107-02-8	Acrolein	10	U
156-59-2	cis-1,2-Dichloroethene	5	5.5
78-93-3	2-Butanone (MEK)	5	U
594-20-7	2,2-Dichloropropane	5	U
107-12-0	Propionitrile	5	U
126-98-7	Methacrylonitrile	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	4.4J
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	7.6
78-87-5	1,2-Dichloropropane	5	U
80-62-6	Methyl Methacrylate	5	U
123-91-1	1,4-Dioxane	5	U

JOY F. WESTON, INC.  
1501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: GW-013-01

LAB ID: 9912006102-015

DATE COLLECTED: 06/05/01 14:45

DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<0.030 mg/L	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	0.278 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/L	
TOTAL CHROMIUM	SW-846 6010A	<0.005 mg/L	
TOTAL LEAD	SW-846 6010A	<0.044 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.047 mg/L	
TOTAL SILVER	SW-846 6010A	<0.006 mg/L	
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/07/01 M.U

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-01

LAB ID: 9912/6102-015

PARENT ORDER NUMBER: 175090

QUANT FACTOR : 5000.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>µg/L</u>	<u>RESULTS</u> <u>µg/L</u>
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	50000	U
75-01-4	Vinyl chloride	25000	U
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-04	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	100000	U
108-05-4	Vinyl Acetate	50000	U
74-88-4	Methyl Iodide	25000	U
75-15-0	Carbon disulfide	50000	U
107-05-1	Allyl Chloride	25000	U
75-05-8	Acetonitrile	50000	U
75-09-2	Methylene chloride	100000	210000
107-13-1	Acrylonitrile	50000	U
1634-04-4	Methyl tert butyl ether	50000	U
156-60-5	trans-1,2-Dichloroethene	25000	U
75-34-3	1,1-Dichloroethane	25000	U
107-02-8	Acrolein	50000	U
156-59-2	cis-1,2-Dichloroethene	25000	34000
78-93-3	2-Butanone (MEK)	25000	U
594-20-7	2,2-Dichloropropane	25000	U
107-12-0	Propionitrile	25000	U
126-98-7	Methacrylonitrile	25000	U
74-97-5	Bromochloromethane	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	140000
563-58-6	1,1-Dichloropropene	25000	U
56-23-5	Carbon tetrachloride	25000	U
107-06-2	1,2-Dichloroethane	25000	U
71-43-2	Benzene	25000	U
79-01-6	Trichloroethene	25000	110000
78-87-5	1,2-Dichloropropane	25000	U
80-62-6	Methyl Methacrylate	25000	U
123-91-1	1,4-Dioxane	25000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE TWO

SAMPLE ID: GW-013-01  
LAB ID: 9912/6102-015  
PARENT ORDER NUMBER: 175090

<u>CAS NUMBER</u>		<u>QUANT FACTOR :</u>	<u>0.00</u>	
		<u>PRACTICAL QUANTITATION LIMIT</u>	<u>RESULTS</u>	<u>µg/L</u>
74-95-3	Dibromomethane	25000		U
78-83-1	Isobutyl Alcohol	50000		U
75-27-4	Bromodichloromethane	25000		U
10061-02-6	trans-1,3-Dichloropropene	25000		U
108-10-1	4-Methyl-2-pentanone	50000		U
76-46-9	2-Nitropropane	50000		U
108-88-3	Toluene	25000	95000	
10061-01-5	cis-1,3-Dichloropropene	25000		U
97-63-2	Ethyl Methacrylate	25000		U
79-00-5	1,1,2-Trichloroethane	25000		U
127-18-4	Tetrachloroethene	25000		U
142-28-9	1,3-Dichloropropane	25000		U
591-78-6	2-Hexanone	50000		U
124-48-1	Chlorodibromomethane	25000		U
106-93-4	1,2-Dibromoethane	25000		U
108-90-7	Chlorobenzene	25000		U
630-20-6	1,1,1,2-Tetrachloroethane	25000		U
100-41-4	Ethylbenzene	25000		U
108-38-3	m&p-Xylene	25000	11000J	
95-47-6	o-Xylene	25000		U
100-42-5	Styrene	25000		U
75-25-2	Bromoform	25000		U
98-82-8	Isopropylbenzene	25000		U
79-34-5	1,1,2,2-Tetrachloroethane	25000		U
108-86-1	Bromobenzene	25000		U
110-57-6	trans-1,4-Dichloro-2-butene	25000		U
96-18-4	1,2,3-Trichloropropane	25000		U
103-65-1	n-Propylbenzene	25000		U
95-49-8	2-Chlorotoluene	25000		U
108-67-8	1,3,5-Trimethylbenzene	25000		U
106-43-4	4-Chlorotoluene	25000		U
98-06-6	t-Butylbenzene	25000		U
95-63-6	1,2,4-Trimethylbenzene	25000		U
135-98-8	sec-Butylbenzene	25000		U
541-73-1	1,3-Dichlorobenzene	25000		U
99-87-6	p-Isopropyltoluene	25000		U
106-46-7	1,4-Dichlorobenzene	25000		U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-01

LAB ID: 9912/6102-015

PARENT ORDER NUMBER: 175090

QUANT FACTOR : 0.00

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
		ppb/L	ng/L
95-50-1	1,2-Dichlorobenzene	25000	U
104-51-8	n-Butylbenzene	25000	U
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	25000	U
87-68-3	Hexachlorobutadiene	50000	U
91-20-3	Naphthalene	50000	U
87-61-6	1,2,3-Trichlorobenzene	25000	U
110-75-8	2-Chloroethyl vinyl ether	50000	U

### SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	99
17060-07-0	1,2-Dichloroethane-d4	88
2037-26-5	Toluene-d8	96

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 14:45  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/18/01  
ANALYST: R.R.

OY F. WESTON, INC.  
501 JOLLY ROAD, SUITE 100  
KEMOS, MI 48864

TTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: GW-013-02  
LAB ID: 9912006102-016  
DATE COLLECTED: 06/05/01 17:04  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<0.030 mg/L	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	0.073 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.004 mg/L	
TOTAL CHROMIUM	SW-846 6010A	<0.005 mg/L	
TOTAL LEAD	SW-846 6010A	<0.044 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	0.200 B mg/L	
TOTAL SILVER	SW-846 6010A	<0.006 mg/L	
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/07/01 M.U

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## VOLATILE ORGANIC COMPOUNDS CAPILLARY COL

METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-02  
LAB ID: 9912/6102-016

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION LIMIT <u>ng/L</u>	<u>RESULTS</u>
			<u>ng/L</u> (Dry Weight Basis)
(1)	75-71-8	Dichlorodifluoromethane	5000 U
(1)	74-87-3	Chloromethane	10000 U
(1)	75-01-4	Vinyl chloride	5000 U
(1)	74-83-9	Bromomethane	5000 U
(1)	75-00-3	Chloroethane	5000 U
(1)	75-69-04	Trichlorofluoromethane	5000 3900J
(1)	75-35-4	1,1-Dichloroethene	5000 U
(1)	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5000 U
(1)	67-64-1	Acetone	20000 14000J
(1)	108-05-4	Vinyl Acetate	10000 U
(1)	74-88-4	Methyl Iodide	5000 U
(1)	75-15-0	Carbon disulfide	10000 U
(1)	107-05-1	Allyl Chloride	5000 U
(1)	75-05-8	Acetonitrile	10000 U
(1)	107-13-1	Acrylonitrile	10000 U
(1)	1634-04-4	Methyl tert butyl ether	5000 U
(1)	156-60-5	trans-1,2-Dichloroethene	5000 15000
(1)	75-34-3	1,1-Dichloroethane	10000 U
(1)	107-02-8	Acrolein	5000 31000
(1)	156-59-2	cis-1,2-Dichloroethene	5000 39000
(1)	78-93-3	2-Butanone (MEK)	5000 U
(1)	594-20-7	2,2-Dichloropropane	5000 U
(1)	107-12-0	Propionitrile	5000 U
(1)	126-98-7	Methacrylonitrile	5000 U
(1)	74-97-5	Bromoform	5000 79000
(1)	67-66-3	Bromochloromethane	5000 150000
(1)	71-55-6	Chloroform	5000 U
(1)	563-58-6	1,1,1-Trichloroethane	5000 U
(1)	56-23-5	1,1-Dichloropropene	5000 U
(1)	107-06-2	Carbon tetrachloride	5000 40000
(1)	71-43-2	1,2-Dichloroethane	5000 21000
(1)	79-01-6	Benzene	5000 60000
(1)	78-87-5	Trichloroethene	5000 U
(1)	80-62-6	1,2-Dichloropropane	5000 U
(1)	123-91-1	Methyl Methacrylate	5000 U
(1)	74-95-3	1,4-Dioxane	5000 U
(1)	78-83-1	Dibromomethane	5000 U
(1)	75-27-4	Isobutyl Alcohol	10000 U
(1)	10061-02-6	Bromodichloromethane	5000 U
		trans-1,3-Dichloropropene	5000 U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD S260IX  
PAGE Two

SAMPLE ID: GW-013-02  
LAB ID: 9912/6102-016

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION LIMIT <u>µg/L</u>	<u>RESULTS</u>
			<u>µg/L</u> (Dry Weight Basis)
(I) 108-10-1	4-Methyl-2-pentanone	10000	42000
(I) 76-46-9	2-Nitropropane	10000	U
(I) 108-88-3	Toluene	5000	48000
(I) 10061-01-5	cis-1,3-Dichloropropene	5000	U
(I) 97-63-2	Ethyl Methacrylate	5000	U
(I) 79-00-5	1,1,2-Trichloroethane	5000	98000
(I) 127-18-4	Tetrachloroethene	5000	5700
(I) 142-28-9	1,3-Dichloropropane	5000	3200J
(I) 591-78-6	2-Hexanone	10000	U
(I) 124-48-1	Chlorodibromomethane	5000	U
(I) 106-93-4	1,2-Dibromoethane	5000	U
(I) 108-90-7	Chlorobenzene	5000	9950
(I) 630-20-6	1,1,1,2-Tetrachloroethane	5000	4600J
(I) 100-41-4	Ethylbenzene	5000	3600J
(I) 108-38-3	m&p-Xylene	5000	11000
(I) 95-47-6	o-Xylene	5000	2900J
(I) 100-42-5	Styrene	5000	U
(I) 75-25-2	Bromoform	5000	U
(I) 98-82-8	Isopropylbenzene	5000	U
(I) 79-34-5	1,1,2,2-Tetrachloroethane	5000	28000
(I) 108-86-1	Bromobenzene	5000	U
(I) 110-57-6	trans-1,4-Dichloro-2-butene	5000	U
(I) 96-18-4	1,2,3-Trichloropropene	5000	3500J
(I) 103-65-1	n-Propylbenzene	5000	U
(I) 95-49-8	2-Chlorotoluene	5000	U
(I) 108-67-8	1,3,5-Trimethylbenzene	5000	U
(I) 106-43-4	4-Chlorotoluene	5000	U
(I) 98-06-6	t-Butylbenzene	5000	U
(I) 95-63-6	1,2,4-Trimethylbenzene	5000	U
135-98-8	sec-Butylbenzene	5000	U
541-73-1	1,3-Dichlorobenzene	5000	U
99-87-6	p-Isopropyltoluene	5000	U
106-46-7	1,4-Dichlorobenzene	5000	U
5-50-1	1,2-Dichlorobenzene	5000	U
-51-8	n-Butylbenzene	5000	U
-8	1,2-Dibromo-3-chloropropane	5000	U
1	1,2,4-Trichlorobenzene	5000	U
	Hexachlorobutadiene	10000	U
	Naphthalene	10000	U
	1,2,3-Trichlorobenzene	5000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## VOLATILE ORGANIC COMPOUNDS CAPILLARY COL

METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-03  
LAB ID: 9912/6102-017  
PARENT ORDER NUMBER: 175097

QUANT FACTOR : 1000.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>µg/L</u>	<u>RESULTS</u> <u>µg/L</u>
75-71-8	Dichlorodifluoromethane	5000	U
74-87-3	Chloromethane	10000	U
75-01-4	Vinyl chloride	5000	U
74-83-9	Bromomethane	5000	U
75-00-3	Chloroethane	5000	U
75-69-04	Trichlorofluoromethane	5000	U
75-35-4	1,1-Dichloroethene	5000	3800J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U
67-64-1	Acetone	20000	2500J
108-05-4	Vinyl Acetate	10000	U
74-88-4	Methyl Iodide	5000	U
75-15-0	Carbon disulfide	10000	U
107-05-1	Allyl Chloride	5000	U
75-05-8	Acetonitrile	10000	U
75-09-2	Methylene chloride	20000	71000
107-13-1	Acrylonitrile	10000	U
1634-04-4	Methyl tert butyl ether	10000	U
156-60-5	trans-1,2-Dichloroethene	5000	U
75-34-3	1,1-Dichloroethane	5000	6300
107-02-8	Acrolein	10000	U
156-59-2	cis-1,2-Dichloroethene	5000	31000
78-93-3	2-Butanone (MEK)	5000	U
594-20-7	2,2-Dichloropropane	5000	U
107-12-0	Propionitrile	5000	U
126-98-7	Methacrylonitrile	5000	U
74-97-5	Bromoform	5000	U
67-66-3	Chloroform	5000	5900
71-55-6	1,1,1-Trichloroethane	5000	150000
563-58-6	1,1-Dichloropropene	5000	U
56-23-5	Carbon tetrachloride	5000	U
107-06-2	1,2-Dichloroethane	5000	U
71-43-2	Benzene	5000	55000
79-01-6	Trichloroethene	5000	36000
78-87-5	1,2-Dichloropropane	5000	U
80-62-6	Methyl Methacrylate	5000	U
123-91-1	1,4-Dioxane	5000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-03  
LAB ID: 9912/6102-017  
PARENT ORDER NUMBER: 175097

<u>CAS NUMBER</u>		<u>QUANT FACTOR :</u>	<u>0.00</u>
		<u>PRACTICAL QUANTITATION LIMIT</u> <u>ng/L</u>	<u>RESULTS</u> <u>ng/L</u>
74-95-3	Dibromomethane	5000	U
78-83-1	Isobutyl Alcohol	10000	U
75-27-4	Bromodichloromethane	5000	U
10061-02-6	trans-1,3-Dichloropropene	5000	U
108-10-1	4-Methyl-2-pentanone	10000	49000
76-46-9	2-Nitropropane	10000	U
108-88-3	Toluene	5000	100000
10061-01-5	cis-1,3-Dichloropropene	5000	U
97-63-2	Ethyl Methacrylate	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
127-18-4	Tetrachloroethene	5000	4700J
142-28-9	1,3-Dichloropropane	5000	U
591-78-6	2-Hexanone	10000	U
124-48-1	Chlorodibromomethane	5000	U
106-93-4	1,2-Dibromoethane	5000	U
108-90-7	Chlorobenzene	5000	U
630-20-6	1,1,1,2-Tetrachloroethane	5000	U
100-41-4	Ethylbenzene	5000	4400J
108-38-3	m&p-Xylene	5000	14000
95-47-6	o-Xylene	5000	3300J
100-42-5	Styrene	5000	U
75-25-2	Bromoform	5000	U
98-82-8	Isopropylbenzene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	5000	U
108-86-1	Bromobenzene	5000	U
110-57-6	trans-1,4-Dichloro-2-butene	5000	U
96-18-4	1,2,3-Trichloropropane	5000	U
103-65-1	n-Propylbenzene	5000	U
95-49-8	2-Chlorotoluene	5000	U
108-67-8	1,3,5-Trimethylbenzene	5000	U
106-43-4	4-Chlorotoluene	5000	U
98-06-6	t-Butylbenzene	5000	U
95-63-6	1,2,4-Trimethylbenzene	5000	U
135-98-8	sec-Butylbenzene	5000	U
541-73-1	1,3-Dichlorobenzene	5000	U
99-87-6	p-Isopropyltoluene	5000	U
106-46-7	1,4-Dichlorobenzene	5000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-03

LAB ID: 9912/6102-017

PARENT ORDER NUMBER: 175097

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>µg/L</u>	<u>RESULTS</u> <u>µg/L</u>
95-50-1	1,2-Dichlorobenzene	5000	U
104-51-8	n-Butylbenzene	5000	U
96-12-8	1,2-Dibromo-3-chloropropane	5000	U
120-82-1	1,2,4-Trichlorobenzene	5000	U
87-68-3	Hexachlorobutadiene	10000	U
91-20-3	Naphthalene	10000	U
87-61-6	1,2,3-Trichlorobenzene	5000	U
110-75-8	2-Chloroethyl vinyl ether	10000	U

SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
460-00-4	4-Bromofluorobenzene	100
17060-07-0	1,2-Dichloroethane-d4	97
2037-26-5	Toluene-d8	98

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 09:20  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/18/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: GW-013-03

LAB ID: 9912006102-017

DATE COLLECTED: 06/06/01 09:20

DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<0.030 mg/L	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	0.209 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.004 mg/L	
TOTAL CHROMIUM	SW-846 6010A	0.013 B mg/L	
TOTAL LEAD	SW-846 6010A	0.068 B mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.047 mg/L	
TOTAL SILVER	SW-846 6010A	<0.006 mg/L	
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/07/01 M.U

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

JY F. WESTON, INC.  
501 JOLLY ROAD, SUITE 100  
KEMOS, MI 48864

TTN: LINDA KOROBKA

INVOICE: 54369

O: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## ANALYSIS RESULTS

SAMPLE ID: GW-013-04  
LAB ID: 9912006102-018  
DATE COLLECTED: 06/06/01 13:37  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	0.425 B mg/L	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	0.392 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.004 mg/L	
TOTAL CHROMIUM	SW-846 6010A	<0.005 mg/L	
TOTAL LEAD	SW-846 6010A	<0.044 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.047 mg/L	
TOTAL SILVER	SW-846 6010A	<0.006 mg/L	
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/07/01 M.U

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
(314) 432-0550  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-04  
LAB ID: 9912/6102-018  
PARENT ORDER NUMBER: 175101

QUANT FACTOR : 200.00

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>µg/L</u>	RESULTS <u>µg/L</u>
75-71-8	Dichlorodifluoromethane	1000
74-87-3	Chloromethane	2000
75-01-4	Vinyl chloride	1000
74-83-9	Bromomethane	1000
75-00-3	Chloroethane	1000
75-69-04	Trichlorofluoromethane	1000
75-35-4	1,1-Dichloroethene	1000
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1000
67-64-1	Acetone	4000
108-05-4	Vinyl Acetate	2000
74-88-4	Methyl Iodide	1000
75-15-0	Carbon disulfide	2000
107-05-1	Allyl Chloride	1000
75-05-8	Acetonitrile	2000
75-09-2	Methylene chloride	4000
107-13-1	Acrylonitrile	2000
1634-04-4	Methyl tert butyl ether	2000
156-60-5	trans-1,2-Dichloroethene	1000
75-34-3	1,1-Dichloroethane	1000
107-02-8	Acrolein	2000
156-59-2	cis-1,2-Dichloroethene	1000
78-93-3	2-Butanone (MEK)	1000
594-20-7	2,2-Dichloropropane	1000
107-12-0	Propionitrile	1000
126-98-7	Methacrylonitrile	1000
74-97-5	Bromochloromethane	1000
67-66-3	Chloroform	1000
71-55-6	1,1,1-Trichloroethane	1000
563-58-6	1,1-Dichloropropene	1000
56-23-5	Carbon tetrachloride	1000
107-06-2	1,2-Dichloroethane	1000
71-43-2	Benzene	1000
79-01-6	Trichloroethene	1000
78-87-5	1,2-Dichloropropane	1000
80-62-6	Methyl Methacrylate	1000
123-91-1	1,4-Dioxane	1000

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-04

LAB ID: 9912/6102-018

PARENT ORDER NUMBER: 175101

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION  
LIMIT  
µg/L

CAS NUMBER

RESULTS  
µg/L

74-95-3	Dibromomethane	1000	U
78-83-1	Isobutyl Alcohol	2000	U
75-27-4	Bromodichloromethane	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
108-10-1	4-Methyl-2-pentanone	2000	U
76-46-9	2-Nitropropane	2000	U
108-88-3	Toluene	1000	6200
10061-01-5	cis-1,3-Dichloropropene	1000	U
97-63-2	Ethyl Methacrylate	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
127-18-4	Tetrachloroethene	1000	U
142-28-9	1,3-Dichloropropane	1000	U
591-78-6	2-Hexanone	2000	U
124-48-1	Chlorodibromomethane	1000	U
106-93-4	1,2-Dibromoethane	1000	U
108-90-7	Chlorobenzene	1000	580J
630-20-6	1,1,1,2-Tetrachloroethane	1000	U
100-41-4	Ethylbenzene	1000	1000
108-38-3	m&p-Xylene	1000	2500
95-47-6	o-Xylene	1000	530J
100-42-5	Styrene	1000	U
75-25-2	Bromoform	1000	U
98-82-8	Isopropylbenzene	1000	400J
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-86-1	Bromobenzene	1000	U
110-57-6	trans-1,4-Dichloro-2-butene	1000	U
96-18-4	1,2,3-Trichloropropane	1000	U
103-65-1	n-Propylbenzene	1000	U
95-49-8	2-Chlorotoluene	1000	U
108-67-8	1,3,5-Trimethylbenzene	1000	U
106-43-4	4-Chlorotoluene	1000	U
98-06-6	t-Butylbenzene	1000	U
95-63-6	1,2,4-Trimethylbenzene	1000	U
135-98-8	sec-Butylbenzene	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
99-87-6	p-Isopropyltoluene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-04

LAB ID: 9912/6102-018

PARENT ORDER NUMBER: 175101

QUANT FACTOR : 0.00

CAS NUMBER		PRACTICAL QUANTITATION	RESULTS <u>mg/L</u>
		LIMIT <u>ug/L</u>	
95-50-1	1,2-Dichlorobenzene	1000	U
104-51-8	n-Butylbenzene	1000	U
96-12-8	1,2-Dibromo-3-chloropropane	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
87-68-3	Hexachlorobutadiene	2000	U
91-20-3	Naphthalene	2000	U
87-61-6	1,2,3-Trichlorobenzene	1000	U
110-75-8	2-Chloroethyl vinyl ether	2000	U

## SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	97
17060-07-0	1,2-Dichloroethane-d4	93
2037-26-5	Toluene-d8	95

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 13:37  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/18/01  
ANALYST: R.R.

JY F. WESTON, INC.  
501 JOLLY ROAD, SUITE 100  
KEMOS, MI 48864

FTN: LINDA KOROBKA

INVOICE: 54383

O: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## ANALYSIS RESULTS

SAMPLE ID: GW-013-05  
AB ID: 9912006135-002  
DATE COLLECTED: 06/06/01 15:20  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/12/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-05

LAB ID: 9912/6135-002

PARENT ORDER NUMBER: 175207

QUANT FACTOR : 1000.00

CAS NUMBER	COMPOUND NAME	PRACTICAL QUANTITATION LIMIT <u>ppb/L</u>	RESULTS
			<u>ppb/L</u> (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	5000	U
74-87-3	Chloromethane	10000	U
75-01-4	Vinyl chloride	5000	2100J
74-83-9	Bromomethane	5000	U
75-00-3	Chloroethane	5000	U
75-69-04	Trichlorofluoromethane	5000	U
75-35-4	1,1-Dichloroethene	5000	2300J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U
67-64-1	Acetone	20000	2900J
108-05-4	Vinyl Acetate	10000	U
74-88-4	Methyl Iodide	5000	U
75-15-0	Carbon disulfide	10000	U
107-05-1	Allyl Chloride	5000	U
75-05-8	Acetonitrile	10000	U
75-09-2	Methylene chloride	20000	27000
107-13-1	Acrylonitrile	10000	U
1634-04-4	Methyl tert butyl ether	10000	U
156-60-5	trans-1,2-Dichloroethene	5000	U
75-34-3	1,1-Dichloroethane	5000	14000
107-02-8	Acrolein	10000	U
156-59-2	cis-1,2-Dichloroethene	5000	63000
78-93-3	2-Butanone (MEK)	5000	U
594-20-7	2,2-Dichloropropane	5000	U
107-12-0	Propionitrile	5000	U
126-98-7	Methacrylonitrile	5000	U
74-97-5	Bromoform	5000	U
67-66-3	Chloroform	5000	U
71-55-6	1,1,1-Trichloroethane	5000	35000
563-58-6	1,1-Dichloropropene	5000	U
56-23-5	Carbon tetrachloride	5000	U
107-06-2	1,2-Dichloroethane	5000	U
71-43-2	Benzene	5000	15000
79-01-6	Trichloroethene	5000	33000
78-87-5	1,2-Dichloropropane	5000	U
80-62-6	Methyl Methacrylate	5000	U
123-91-1	1,4-Dioxane	5000	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

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11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-05

LAB ID: 9912/6135-002

PARENT ORDER NUMBER: 175207

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION		<u>RESULTS</u> <u>µg/L</u> (Dry Weight Basis)
		<u>LIMIT</u> <u>µg/L</u>		
74-95-3	Dibromomethane	5000		U
78-83-1	Isobutyl Alcohol	10000		U
75-27-4	Bromodichloromethane	5000		U
10061-02-6	trans-1,3-Dichloropropene	5000		U
108-10-1	4-Methyl-2-pentanone	10000	6000J	
76-46-9	2-Nitropropane	10000		U
108-88-3	Toluene	5000	33000	
10061-01-5	cis-1,3-Dichloropropene	5000		U
97-63-2	Ethyl Methacrylate	5000		U
79-00-5	1,1,2-Trichloroethane	5000		U
127-18-4	Tetrachloroethylene	5000		U
142-28-9	1,3-Dichloropropane	5000		U
591-78-6	2-Hexanone	10000		U
124-48-1	Chlorodibromomethane	5000		U
106-93-4	1,2-Dibromoethane	5000		U
108-90-7	Chlorobenzene	5000		U
630-20-6	1,1,1,2-Tetrachloroethane	5000		U
100-41-4	Ethylbenzene	5000		U
108-38-3	m&p-Xylene	5000	4800J	
95-47-6	o-Xylene	5000		U
100-42-5	Styrene	5000		U
75-25-2	Bromoform	5000		U
98-82-8	Isopropylbenzene	5000		U
79-34-5	1,1,2,2-Tetrachloroethane	5000		U
108-86-1	Bromobenzene	5000		U
110-57-6	trans-1,4-Dichloro-2-butene	5000		U
96-18-4	1,2,3-Trichloropropane	5000		U
103-65-1	n-Propylbenzene	5000		U
95-49-8	2-Chlorotoluene	5000		U
108-67-8	1,3,5-Trimethylbenzene	5000		U
106-43-4	4-Chlorotoluene	5000		U
98-06-6	t-Butylbenzene	5000		U
95-63-6	1,2,4-Trimethylbenzene	5000		U
135-98-8	sec-Butylbenzene	5000		U
541-73-1	1,3-Dichlorobenzene	5000		U
99-87-6	p-Isopropyltoluene	5000		U
106-46-7	1,4-Dichlorobenzene	5000		U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-05

LAB ID: 9912/6135-002

PARENT ORDER NUMBER: 175207

QUANT FACTOR : 0.00

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>µg/L</u>	RESULTS <u>µg/L</u> (Dry Weight Basis)	
		U	U
95-50-1	1,2-Dichlorobenzene	5000	U
104-51-8	n-Butylbenzene	5000	U
96-12-8	1,2-Dibromo-3-chloropropane	5000	U
120-82-1	1,2,4-Trichlorobenzene	5000	U
87-68-3	Hexachlorobutadiene	10000	U
91-20-3	Naphthalene	10000	7100J
87-61-6	1,2,3-Trichlorobenzene	5000	U
110-75-8	2-Chloroethyl vinyl ether	10000	U

## SURROGATE RECOVERY RESULTS

	% RECOVERY
460-00-4	104
17060-07-0	101
2037-26-5	97

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 15:20  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: GW-013-05  
LAB ID: 9912/6135-002  
PARENT ORDER NUMBER: 175208

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>PRACTICAL QUANTITATION LIMIT</u> <u>ug/L</u>	<u>RESULTS</u> <u>ug/L</u>	<u>% RECOVERY</u>
12674-11-2	A-1016	1.00	U
1104-28-2	A-1221	1.00	U
11141-16-5	A-1232	1.00	U
53469-21-9	A-1242	1.00	U
12672-29-6	A-1248	1.00	U
11097-69-1	A-1254	1.00	U
11096-82-5	A-1260	1.00	U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	85
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	98

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 15:20  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/16/01  
ANALYST: J.K.

JOY F. WESTON, INC.  
1501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: GW-013-06  
LAB ID: 9912006135-003  
DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/12/01 M.U

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-06

LAB ID: 9912/6135-003

PARENT ORDER NUMBER: 175212

QUANT FACTOR : 1.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION <u>LIMIT</u> <u>ng/L</u>	<u>RESULTS</u>
			<u>ng/L</u> (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	5	4.8J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-04	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
67-64-1	Acetone	20	U
108-05-4	Vinyl Acetate	10	U
74-88-4	Methyl Iodide	5	U
75-15-0	Carbon disulfide	10	U
107-05-1	Allyl Chloride	5	U
75-05-8	Acetonitrile	10	U
75-09-2	Methylene chloride	20	10J
107-13-1	Acrylonitrile	10	U
1634-04-4	Methyl tert butyl ether	10	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	8.0
107-02-8	Acrolein	10	U
156-59-2	cis-1,2-Dichloroethene	5	27
78-93-3	2-Butanone (MEK)	5	U
594-20-7	2,2-Dichloropropane	5	U
107-12-0	Propionitrile	5	U
126-98-7	Methacrylonitrile	5	U
74-97-5	Bromoform	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	6.6
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	2.8J
79-01-6	Trichloroethene	5	34
78-87-5	1,2-Dichloropropane	5	U
80-62-6	Methyl Methacrylate	5	U
123-91-1	1,4-Dioxane	5	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-06

LAB ID: 9912/6135-003

PARENT ORDER NUMBER: 175212

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION <u>LIMIT</u> <u>ug/L</u>	<u>RESULTS</u>
			(Dry Weight Basis)
74-95-3	Dibromomethane	5	U
78-83-1	Isobutyl Alcohol	10	U
75-27-4	Bromodichloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
76-46-9	2-Nitropropane	10	U
108-88-3	Toluene	5	9.8
10061-01-5	cis-1,3-Dichloropropene	5	U
97-63-2	Ethyl Methacrylate	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethylene	5	U
142-28-9	1,3-Dichloropropane	5	U
591-78-6	2-Hexanone	10	U
124-48-1	Chlorodibromomethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	2.9J
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m&p-Xylene	5	4.0J
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	t-Butylbenzene	5	16
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
99-87-6	p-Isopropyltoluene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-06

LAB ID: 9912/6135-003

PARENT ORDER NUMBER: 175212

QUANT FACTOR : 0.00

## PRACTICAL QUANTITATION

CAS NUMBER	COMPOUND NAME	PRACTICAL QUANTITATION LIMIT <u>µg/L</u>	RESULTS	
			<u>µg/L</u>	(Dry Weight Basis)
95-50-1	1,2-Dichlorobenzene	5	U	
104-51-8	n-Butylbenzene	5	U	
96-12-8	1,2-Dibromo-3-chloropropane	5	U	
120-82-1	1,2,4-Trichlorobenzene	5	U	
87-68-3	Hexachlorobutadiene	10	U	
91-20-3	Naphthalene	10	U	
87-61-6	1,2,3-Trichlorobenzene	5	U	
110-75-8	2-Chloroethyl vinyl ether	10	U	

## SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	103
17060-07-0	1,2-Dichloroethane-d4	95
2037-26-5	Toluene-d8	96

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-07  
LAB ID: 9912/6135-004  
PARENT ORDER NUMBER: 175213

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION

LIMIT  
µg/L

RESULTS  
µg/L  
(Dry Weight Basis)

CAS NUMBER

74-95-3	Dibromomethane	5	U
78-83-1	Isobutyl Alcohol	10	U
75-27-4	Bromodichloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
76-46-9	2-Nitropropane	10	U
108-88-3	Toluene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
97-63-2	Ethyl Methacrylate	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	98
142-28-9	1,3-Dichloropropane	5	U
591-78-6	2-Hexanone	10	U
124-48-1	Chlorodibromomethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m&p-Xylene	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	t-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
99-87-6	p-Isopropyltoluene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA  
INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMETRICS, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-07  
LAB ID: 9912/6135-004  
PARENT ORDER NUMBER: 175213

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	NAME	PRACTICAL QUANTITATION LIMIT <u>µg/L</u>	<u>RESULTS</u> <u>µg/L</u>	
			(Dry Weight Basis)	
95-50-1	1,2-Dichlorobenzene	5	U	
104-51-8	n-Butylbenzene	5	U	
96-12-8	1,2-Dibromo-3-chloropropane	5	U	
120-82-1	1,2,4-Trichlorobenzene	5	U	
87-68-3	Hexachlorobutadiene	10	U	
91-20-3	Naphthalene	10	U	
87-61-6	1,2,3-Trichlorobenzene	5	U	
110-75-8	2-Chloroethyl vinyl ether	10	U	

SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	101
17060-07-0	1,2-Dichloroethane-d4	96
2037-26-5	Toluene-d8	95

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 17:32  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: GW-013-07

LAB ID: 9912/6135-004

PARENT ORDER NUMBER: 175216

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION LIMIT <u>µg/L</u>	<u>RESULTS</u> <u>µg/L</u>	<u>% RECOVERY</u>
12674-11-2	A-1016	1.00	U	
1104-28-2	A-1221	1.00	U	
11141-16-5	A-1232	1.00	U	
53469-21-9	A-1242	1.00	U	
12672-29-6	A-1248	1.00	U	
11097-69-1	A-1254	1.00	U	
11096-82-5	A-1260	1.00	U	

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	94
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	87

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 17:32  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/16/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## ANALYSIS RESULTS

SAMPLE ID: GW-013-08  
LAB ID: 9912006135-009  
DATE COLLECTED: 06/07/01 10:35  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<0.030 mg/L	06/20/01 J.T
TOTAL BARIUM	SW-846 6010A	0.347 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.004 mg/L	
TOTAL CHROMIUM	SW-846 6010A	0.008 B mg/L	
TOTAL LEAD	SW-846 6010A	<0.044 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	0.083 B mg/L	
TOTAL SILVER	SW-846 6010A	<0.006 mg/L	
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/12/01 M.U
PH (ELECTROMETRIC)	SW-846 9040	7.040	06/11/01 A.V

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-08

LAB ID: 9912/6135-009

PARENT ORDER NUMBER: 175234

QUANT FACTOR : 1.00

PRACTICAL QUANTITATION

LIMIT  
ng/L

RESULTS  
ug/L  
(Dry Weight Basis)

CAS NUMBER

75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-04	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
67-64-1	Acetone	20	U
108-05-4	Vinyl Acetate	10	U
74-88-4	Methyl Iodide	5	U
75-15-0	Carbon disulfide	10	U
107-05-1	Allyl Chloride	5	U
75-05-8	Acetonitrile	10	U
75-09-2	Methylene chloride	20	3.4J
107-13-1	Acrylonitrile	10	U
1634-04-4	Methyl tert butyl ether	10	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
107-02-8	Acrolein	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
78-93-3	2-Butanone (MEK)	5	U
594-20-7	2,2-Dichloropropane	5	U
107-12-0	Propionitrile	5	U
126-98-7	Methacrylonitrile	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
80-62-6	Methyl Methacrylate	5	U
123-91-1	1,4-Dioxane	5	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-08  
LAB ID: 9912/6135-009  
PARENT ORDER NUMBER: 175234

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION

LIMIT  
ppb/L

RESULTS  
ppb/L  
(Dry Weight Basis)

CAS NUMBER

74-95-3	Dibromomethane	5	U
78-83-1	Isobutyl Alcohol	10	U
75-27-4	Bromodichloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
76-46-9	2-Nitropropane	10	U
108-88-3	Toluene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
97-63-2	Ethyl Methacrylate	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
142-28-9	1,3-Dichloropropane	5	U
591-78-6	2-Hexanone	10	U
124-48-1	Chlorodibromomethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m&p-Xylene	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	t-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
99-87-6	p-Isopropyltoluene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-08  
LAB ID: 9912/6135-009  
PARENT ORDER NUMBER: 175234

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION <u>LIMIT</u> <u>ng/L</u>	<u>RESULTS</u>	
		(Dry Weight Basis)	<u>ng/L</u>
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	10	U
91-20-3	Naphthalene	10	U
87-61-6	1,2,3-Trichlorobenzene	5	U
110-75-8	2-Chloroethyl vinyl ether	10	U

SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
460-00-4	4-Bromofluorobenzene	101
17060-07-0	1,2-Dichloroethane-d4	92
2037-26-5	Toluene-d8	96

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 10:35  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: GW-013-08

LAB ID: 9912/6135-009

PARENT ORDER NUMBER: 175231

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u>		<u>RESULTS</u>
		<u>µg/L</u>	<u>µg/L</u>	
12674-11-2	A-1016	1.00		U
1104-28-2	A-1221	1.00		U
11141-16-5	A-1232	1.00		U
53469-21-9	A-1242	1.00		U
12672-29-6	A-1248	1.00		U
11097-69-1	A-1254	1.00		U
11096-82-5	A-1260	1.00		U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	80
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	70

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 10:35  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/16/01  
ANALYST: J.K.

OY F. WESTON, INC.  
501 JOLLY ROAD, SUITE 100  
KEMOS, MI 48864

TTN: LINDA KOROBKA

NVOICE: 54383

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

AMPLE ID: GW-013-09  
AB ID: 9912006135-008  
ATE COLLECTED: 06/07/01 10:19  
ATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	0.131 B mg/L	06/20/01 J.T
TOTAL BARIUM	SW-846 6010A	0.194 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.004 mg/L	
TOTAL CHROMIUM	SW-846 6010A	<0.005 mg/L	
TOTAL LEAD	SW-846 6010A	<0.044 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.047 mg/L	
TOTAL SILVER	SW-846 6010A	<0.006 mg/L	
CYANIDE, TOTAL	SW-846 9010	<0.01 mg/L	06/12/01 M.U
PH (ELECTROMETRIC)	SW-846 9040	6.990	06/11/01 A.V

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-09

LAB ID: 9912/6135-008

PARENT ORDER NUMBER: 175226

QUANT FACTOR : 1.00

PRACTICAL QUANTITATION

LIMIT  
µg/L

RESULTS  
µg/L  
(Dry Weight Basis)

CAS NUMBER

75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-04	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
67-64-1	Acetone	20	U
108-05-4	Vinyl Acetate	10	U
74-88-4	Methyl Iodide	5	U
75-15-0	Carbon disulfide	10	U
107-05-1	Allyl Chloride	5	U
75-05-8	Acetonitrile	10	U
75-09-2	Methylene chloride	20	U
107-13-1	Acrylonitrile	10	U
1634-04-4	Methyl tert butyl ether	10	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
107-02-8	Acrolein	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
78-93-3	2-Butanone (MEK)	5	U
594-20-7	2,2-Dichloropropane	5	U
107-12-0	Propionitrile	5	U
126-98-7	Methacrylonitrile	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
80-62-6	Methyl Methacrylate	5	U
123-91-1	1,4-Dioxane	5	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: --

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-09

LAB ID: 9912/6135-008

PARENT ORDER NUMBER: 175226

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION LIMIT <u>ug/L</u>	RESULTS
		<u>ug/L</u> (Dry Weight Basis)

74-95-3	Dibromomethane	5	U
78-83-1	Isobutyl Alcohol	10	U
75-27-4	Bromodichloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
76-46-9	2-Nitropropane	10	U
108-88-3	Toluene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
97-63-2	Ethyl Methacrylate	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
142-28-9	1,3-Dichloropropane	5	U
591-78-6	2-Hexanone	10	U
124-48-1	Chlorodibromomethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m&p-Xylene	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	t-Butylbenzene	5	22
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
99-87-6	p-Isopropyltoluene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-09  
LAB ID: 9912/6135-008  
PARENT ORDER NUMBER: 175226

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>ppb</u>	<u>RESULTS</u> <u>ppb</u> (Dry Weight Basis)
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	10	U
91-20-3	Naphthalene	10	U
87-61-6	1,2,3-Trichlorobenzene	5	U
110-75-8	2-Chloroethyl vinyl ether	10	U

### SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
460-00-4	4-Bromofluorobenzene	100
17060-07-0	1,2-Dichloroethane-d4	96
2037-26-5	Toluene-d8	95

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 10:19  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/14/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
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PCB  
METHOD 8082  
PAGE One

SAMPLE ID: GW-013-09

LAB ID: 9912/6135-008

PARENT ORDER NUMBER: 175228

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u>		<u>RESULTS</u> <u>ng/L</u>
		<u>ug/L</u>		
12674-11-2	A-1016	1.00		U
1104-28-2	A-1221	1.00		U
11141-16-5	A-1232	1.00		U
53469-21-9	A-1242	1.00		U
12672-29-6	A-1248	1.00		U
11097-69-1	A-1254	1.00		U
11096-82-5	A-1260	1.00		U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	101
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	94

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 10:19  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/16/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: GW-013-10  
LAB ID: 9912006135-007  
DATE COLLECTED: 06/07/01 10:55  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<0.030	mg/L
TOTAL BARIUM	SW-846 6010A	0.196	mg/L
TOTAL CADMIUM	SW-846 6010A	<0.004	mg/L
TOTAL CHROMIUM	SW-846 6010A	0.012 B	mg/L
TOTAL LEAD	SW-846 6010A	<0.044	mg/L
TOTAL MERCURY	SW-846 7470A	<0.0002	mg/L
TOTAL SELENIUM	SW-846 6010A	<0.047	mg/L
TOTAL SILVER	SW-846 6010A	<0.006	mg/L

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: GW-013-10  
LAB ID: 9912/6135-007  
PARENT ORDER NUMBER: 175220

QUANT FACTOR : 1.00

<u>CAS NUMBER</u>	COMPOUND NAME	PRACTICAL QUANTITATION LIMIT <u>ug/L</u>	RESULTS	
			<u>ug/L</u>	(Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	5	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
75-69-04	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U	
67-64-1	Acetone	20	U	
108-05-4	Vinyl Acetate	10	U	
74-88-4	Methyl Iodide	5	U	
75-15-0	Carbon disulfide	10	U	
107-05-1	Allyl Chloride	5	U	
75-05-8	Acetonitrile	10	U	
75-09-2	Methylene chloride	20	ISJ	
107-13-1	Acrylonitrile	10	U	
1634-04-4	Methyl tert butyl ether	10	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
75-34-3	1,1-Dichloroethane	5	U	
107-02-8	Acrolein	10	U	
156-59-2	cis-1,2-Dichloroethene	5	U	
78-93-3	2-Butanone (MEK)	5	U	
594-20-7	2,2-Dichloropropane	5	U	
107-12-0	Propionitrile	5	U	
126-98-7	Methacrylonitrile	5	U	
74-97-5	Bromoform	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	3.1J	
563-58-6	1,1-Dichloropropene	5	U	
56-23-5	Carbon tetrachloride	5	U	
107-06-2	1,2-Dichloroethane	5	U	
71-43-2	Benzene	5	U	
79-01-6	Trichloroethene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
80-62-6	Methyl Methacrylate	5	U	
123-91-1	1,4-Dioxane	5	U	

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: GW-013-10

LAB ID: 9912/6135-007

PARENT ORDER NUMBER: 175220

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION  
LIMIT

RESULTS  
µg/L  
(Dry Weight Basis)

CAS NUMBER

74-95-3	Dibromomethane	5	U
78-83-1	Isobutyl Alcohol	10	U
75-27-4	Bromodichloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
76-46-9	2-Nitropropane	10	U
108-88-3	Toluene	5	2.5J
10061-01-5	cis-1,3-Dichloropropene	5	U
97-63-2	Ethyl Methacrylate	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
142-28-9	1,3-Dichloropropane	5	U
591-78-6	2-Hexanone	10	U
124-48-1	Chlorodibromomethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m&p-Xylene	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	t-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
99-87-6	p-Isopropyltoluene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: GW-013-10

LAB ID: 9912/6135-007

PARENT ORDER NUMBER: 175220

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION LIMIT <u>µg/L</u>	<u>RESULTS</u>	
		<u>µg/L</u>	(Dry Weight Basis)
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	10	U
91-20-3	Naphthalene	10	U
87-61-6	1,2,3-Trichlorobenzene	5	U
110-75-8	2-Chloroethyl vinyl ether	10	U

SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	101
17060-07-0	1,2-Dichloroethane-d4	95
2037-26-5	Toluene-d8	93

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 10:55  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/14/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: GW-013-10

LAB ID: 9912/6135-007

PARENT ORDER NUMBER: 175222

QUANT FACTOR : 0.00

### CAS NUMBER

### PRACTICAL QUANTITATION

LIMIT  
µg/L

RESULTS  
µg/L

12674-11-2	A-1016	1.00	U
1104-28-2	A-1221	1.00	U
11141-16-5	A-1232	1.00	U
53469-21-9	A-1242	1.00	U
12672-29-6	A-1248	1.00	U
11097-69-1	A-1254	1.00	U
11096-82-5	A-1260	1.00	U

### SURROGATE RECOVERY RESULTS

% RECOVERY  
87  
88

2051-24-3	Decachlorobiphenyl (DCB)
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 10:55  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/16/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

## ANALYSIS RESULTS

SAMPLE ID: SS-013-01  
LAB ID: 9912006102-001  
DATE COLLECTED: 06/05/01 14:15  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	6.59 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	1215 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	42.3 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	3292 mg/Kg	
TOTAL LEAD	SW-846 6010A	14368 mg/Kg	
TOTAL MERCURY	SW-846 7471A	3.80 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	6.21 B mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
PH	SW-846 9045	7.700	06/08/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL METRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-01  
LAB ID: 9912/6102-001  
PARENT ORDER NUMBER: 175069

CAS NUMBER	PRACTICAL QUANTITATION LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)	
		U	U
75-71-8	Dichlorodifluoromethane	6.3	U
74-87-3	Chloromethane	12.6	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	12.6	U
75-00-3	Chloroethane	12.6	U
75-69-04	Trichlorofluoromethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.3	U
67-64-1	Acetone	62.9	U
108-05-4	Vinyl Acetate	62.9	U
74-88-4	Methyl Iodide	12.6	U
75-15-0	Carbon disulfide	6.3	U
107-05-1	Allyl Chloride	6.3	U
75-05-8	Acetonitrile	6.3	U
75-09-2	Methylene chloride	6.3	8.5
107-13-1	Acrylonitrile	6.3	U
1634-04-4	Methyl tert butyl ether	2.5	U
156-60-5	trans-1,2-Dichloroethene	6.3	U
75-34-3	1,1-Dichloroethane	6.3	9.9
107-02-8	Acrolein	126	U
156-59-2	cis-1,2-Dichloroethene	6.3	13.2
78-93-3	2-Butanone (MEK)	62.9	U
594-20-7	2,2-Dichloropropane	6.3	U
107-12-0	Proprionitrile	6.3	U
126-98-7	Methacrylonitrile	62.9	U
74-97-5	Bromo-chloromethane	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
563-58-6	1,1-Dichloropropene	6.3	U
56-23-5	Carbon tetrachloride	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
71-43-2	Benzene	2.5	4.8
79-01-6	Trichloroethene	6.3	U
76-87-5	1,2-Dichloropropane	6.3	U
80-62-6	Methyl Methacrylate	12.6	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL TESTERS, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY CO.  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SS-013-01  
LAB ID: 9912/6102-001  
PARENT ORDER NUMBER: 175069

CAS NUMBER	PRACTICAL QUANTITATION		RESULTS µg/Kg (Dry Weight Basis)
	LIMIT µg/Kg		
123-91-1	1,4-Dioxane	6.3	U
74-95-3	Dibromomethane	6.3	U
78-83-1	Isobutyl Alcohol	6.3	U
75-27-4	Bromodichloromethane	6.3	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	62.9	U
76-46-9	2-Nitropropane	62.9	U
108-88-3	Toluene	6.3	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
97-63-2	Ethyl Methacrylate	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
127-18-4	Tetrachloroethene	6.3	U
142-28-9	1,3-Dichloropropane	6.3	U
591-78-6	2-Hexanone	62.9	U
124-48-1	Chlorodibromomethane	12.6	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
630-20-6	1,1,1,2-Tetrachloroethane	6.3	U
100-41-4	Ethylbenzene	6.3	U
108-38-3	m,p-Xylene	6.3	U
95-47-6	o-Xylene	6.3	U
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropylbenzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
108-86-1	Bromobenzene	6.3	U
110-57-6	trans-1,4-Dichloro-2-butene	6.3	U
96-18-4	1,2,3-Trichloropropane	12.6	U
103-65-1	n-Propylbenzene	6.3	U
95-49-8	2-Chlorotoluene	6.3	U
108-67-8	1,3,5-Trimethylbenzene	6.3	U
106-43-4	4-Chlorotoluene	6.3	U
98-06-6	t-Butylbenzene	6.3	U
95-63-6	1,2,4-Trimethylbenzene	6.3	U
135-98-8	sec-Butylbenzene	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL TESTS, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-01  
LAB ID: 9912/6102-001  
PARENT ORDER NUMBER: 175069

CAS NUMBER	PRACTICAL QUANTITATION		
	LIMIT μg/Kg	RESULTS μg/Kg (Dry Weight Basis)	
99-87-6 p-Isopropyltoluene	6.3	0	
106-46-7 1,4-Dichlorobenzene	6.3	0	
95-50-1 1,2-Dichlorobenzene	6.3	0	
104-51-8 n-Butylbenzene	6.3	0	
96-12-8 1,2-Dibromo-3-chloropropane	6.3	0	
120-82-1 1,2,4-Trichlorobenzene	6.3	0	
87-68-3 Hexachlorobutadiene	6.3	0	
91-20-3 Naphthalene	12.6	0	
87-61-6 1,2,3-Trichlorobenzene	6.3	0	
110-75-8 2-Chloroethyl vinyl ether	6.3	0	

SURROGATE RECOVERY RESULTS

	% RECOVERY
1,2-Dichloroethane-d4	119
4-Bromofluorobenzene	95.4
Dibromofluoromethane	108
Toluene-d8	96.8

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: T.L.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMOVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE One

SAMPLE ID: SS-013-01

LAB ID: 9912/6102-001

PARENT ORDER NUMBER: 175069

QUANT FACTOR :

2118.02

CAS NUMBER	COMPOUND NAME	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS
			<u>µg/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	4553.73	U
62-75-9	n-Nitrosodimethylamine	3304.10	U
62-53-3	Aniline	4786.72	U
111-44-4	Bis(2-chloroethyl)ether	1927.39	U
95-57-8	2-Chlorophenol	2351.00	U
108-95-2	Phenol	1779.13	U
541-73-1	1,3-Dichlorobenzene	2456.90	U
106-46-7	1,4-Dichlorobenzene	2372.18	U
95-50-1	1,2-Dichlorobenzene	2245.10	U
100-51-6	Benzyl alcohol	1630.87	U
108-60-1	2,2-oxybis(1-Chloropropane)	2944.04	U
95-48-7	2-Methylphenol	2647.52	U
67-72-1	Hexachloroethane	2329.82	U
621-64-7	N-Nitrosodi-n-propylamine	2245.10	U
106-44-5	4-Methylphenol	2774.60	U
98-95-3	Nitrobenzene	1779.13	U
78-59-1	Isophorone	1885.03	2600
88-75-5	2-Nitrophenol	2160.38	U
105-67-9	2,4-Dimethylphenol	5422.12	U
111-91-1	Bis(2-chloroethoxy)methane	1757.95	U
120-83-2	2,4-Dichlorophenol	1715.59	U
120-82-1	1,2,4-Trichlorobenzene	2139.20	U
91-20-3	Naphthalene	2075.66	U
65-85-0	Benzoic acid	3939.51	U
106-47-8	4-Chloroaniline	1397.89	U
87-68-3	Hexachlorobutadiene	2435.72	U
91-57-6	2-Methylnaphthalene	1800.31	U
59-50-7	4-Chloro-3-methylphenol	2118.02	U
77-47-4	Hexachlorocyclopentadiene	2965.22	U
88-06-2	2,4,6-Trichlorophenol	3177.02	U
95-95-4	2,4,5-Trichlorophenol	5697.46	U
91-58-7	2-Chloronaphthalene	1990.93	U
88-74-4	2-Nitroaniline	1503.79	U
208-96-8	Acenaphthylene	1291.99	U
131-11-3	Dimethyl phthalate	1800.31	U
606-20-2	2,6-Dinitrotoluene	2054.48	U
83-32-9	Acenaphthene	1291.99	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SS-013-01  
LAB ID: 9912/6102-001  
PARENT ORDER NUMBER: 175069

<u>CAS NUMBER</u>		QUANT FACTOR :	0.00
		<u>METHOD DETECTION LIMIT</u> <u>ug/KG</u>	<u>RESULTS</u> <u>ug/KG</u> (Dry Weight Basis)
99-09-2	3-Nitroaniline	2266.28	U
51-28-5	2,4-Dinitrophenol	2054.48	U
132-64-9	Dibenzofuran	2160.38	U
121-14-2	2,4-Dinitrotoluene	1736.77	U
100-02-7	4-Nitrophenol	4299.57	U
86-73-7	Fluorene	1546.15	U
7005-72-3	4-Chlorophenyl phenyl ether	1440.25	U
84-66-2	Diethyl phthalate	1715.59	U
100-01-6	4-Nitroaniline	1779.13	U
534-52-1	4,6-Dinitro-2-methylphenol	3473.55	U
86-30-6	N-Nitrosodiphenylamine	2033.30	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	1503.79	U
101-55-3	4-Bromophenyl phenyl ether	1524.97	U
118-74-1	Hexachlorobenzene	1461.43	U
1912-24-9	Atrazine	6354.05	U
87-86-5	Pentachlorophenol	3452.37	U
85-01-8	Phenanthrene	1228.45	U
120-12-7	Anthracene	1609.69	U
86-74-8	Carbazole	1885.03	U
15972-60-8	Alachlor	6354.05	U
84-74-2	Di-n-butyl phthalate	2711.06	3600
206-44-0	Fluoranthene	1355.53	U
92-87-5	Benzidine	21180.16	U
129-00-0	Pyrene	1652.05	U
85-68-7	Butyl benzyl phthalate	847.21	1500
56-55-3	Benz(a)anthracene	1461.43	U
218-01-9	Chrysene	1863.85	U
91-94-1	3,3'-Dichlorobenzidine	2562.80	U
117-81-7	Bis(2-ethylhexyl)phthalate	2711.06	93000
117-84-0	Di-n-octyl phthalate	1609.69	7700
205-99-2	Benzo(b)fluoranthene	3007.58	U
207-08-9	Benzo(k)fluoranthene	3431.19	U
50-32-8	Benzo(a)pyrene	1376.71	U
193-39-5	Indeno(1,2,3-cd)pyrene	1715.59	U
53-70-3	Dibenz(a,h)anthracene	1186.09	U
191-24-2	Benzo(g,h,i)perylene	1800.31	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SS-013-02  
LAB ID: 9912006102-002  
DATE COLLECTED: 06/05/01 14:40  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	4.74 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	136 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.62 B mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	36.3 mg/Kg	
TOTAL LEAD	SW-846 6010A	134 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.500 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
PH	SW-846 9045	6.170	06/08/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-02  
LAB ID: 9912/6102-002  
PARENT ORDER NUMBER: 175070

QUANT FACTOR : 3224.97

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION <u>LIMIT</u> <u>ug/Kg</u>	<u>RESULTS</u> <u>ug/Kg</u> (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	16125	U
74-87-3	Chloromethane	32250	U
75-01-4	Vinyl chloride	16125	U
74-83-9	Bromomethane	16125	U
75-00-3	Chloroethane	16125	U
75-69-04	Trichlorofluoromethane	16125	U
75-35-4	1,1-Dichloroethene	16125	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16125	U
67-64-1	Acetone	64499	34000J
108-05-4	Vinyl Acetate	32250	U
74-88-4	Methyl Iodide	16125	U
75-15-0	Carbon disulfide	32250	U
107-05-1	Allyl Chloride	16125	U
75-05-8	Acetonitrile	32250	U
75-09-2	Methylene chloride	64499	10000J
107-13-1	Acrylonitrile	32250	U
1634-04-4	Methyl tert butyl ether	32250	U
156-60-5	trans-1,2-Dichloroethene	16125	U
75-34-3	1,1-Dichloroethane	16125	U
107-02-8	Acrolein	32250	U
156-59-2	cis-1,2-Dichloroethene	16125	U
78-93-3	2-Butanone (MEK)	16125	U
594-20-7	2,2-Dichloropropane	16125	U
107-12-0	Propionitrile	16125	U
126-98-7	Methacrylonitrile	16125	U
74-97-5	Bromochloromethane	16125	U
67-66-3	Chloroform	16125	U
71-55-6	1,1,1-Trichloroethane	16125	U
563-58-6	1,1-Dichloropropene	16125	U
56-23-5	Carbon tetrachloride	16125	U
107-06-2	1,2-Dichloroethane	16125	U
71-43-2	Benzene	16125	U
79-01-6	Trichloroethene	16125	U
78-87-5	1,2-Dichloropropane	16125	U
80-62-6	Methyl Methacrylate	16125	U
123-91-1	1,4-Dioxane	16125	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SS-013-02  
LAB ID: 9912/6102-002  
PARENT ORDER NUMBER: 175070

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>µg/Kg</u>	QUANT. FACTOR :	RESULTS <u>µg/Kg</u> (Dry Weight Basis)
74-95-3	16125		U
78-83-1	32250		U
75-27-4	16125		U
10061-02-6	16125		U
108-10-1	32250		9700J
76-46-9	32250		U
108-88-3	16125		83000
10061-01-5	16125		U
97-63-2	16125		U
79-00-5	16125		U
127-18-4	16125		U
142-28-9	16125		U
591-78-6	32250		U
124-48-1	16125		U
106-93-4	16125		U
108-90-7	16125		44000
630-20-6	16125		U
100-41-4	16125		26000
108-38-3	16125		130000
95-47-6	16125		35000
100-42-5	16125		U
75-25-2	16125		U
98-82-8	16125		U
79-34-5	16125		U
108-86-1	16125		U
110-57-6	16125		U
96-18-4	16125		U
103-65-1	16125		8000J
95-49-8	16125		U
108-67-8	16125		14000J
106-43-4	16125		U
98-06-6	16125		U
95-63-6	16125		43000
135-98-8	16125		U
541-73-1	16125		U
99-87-6	16125		U
106-46-7	16125		20000

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

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St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-02  
LAB ID: 9912/6102-002  
PARENT ORDER NUMBER: 175070

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	NAME	PRACTICAL QUANTITATION LIMIT <u>ng/Kg</u>	<u>RESULTS</u> <u>µg/Kg</u>	
			(Dry Weight Basis)	
95-50-1	1,2-Dichlorobenzene	16125	12000J	
104-51-8	n-Butylbenzene	16125	U	
96-12-8	1,2-Dibromo-3-chloropropane	16125	U	
120-82-1	1,2,4-Trichlorobenzene	16125	U	
87-68-3	Hexachlorobutadiene	32250	U	
91-20-3	Naphthalene	32250	6700J	
87-61-6	1,2,3-Trichlorobenzene	16125	U	
110-75-8	2-Chloroethyl vinyl ether	32250	U	

SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	102
17060-07-0	1,2-Dichloroethane-d4	100
2037-26-5	Toluene-d8	100

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 14:40  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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SEMVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SS-013-02  
LAB ID: 9912/6102-002  
PARENT ORDER NUMBER: 175070

QUANT. FACTOR : 2149.98

<u>CAS NUMBER</u>		<u>METHOD DETECTION LIMIT</u> <u>ug/KG</u>	<u>RESULTS</u> <u>ug/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	4622.46	U
62-75-9	n-Nitrosodimethylamine	3353.97	U
62-53-3	Aniline	4858.96	U
111-44-4	Bis(2-chloroethyl)ether	1956.48	U
95-57-8	2-Chlorophenol	2386.48	U
108-95-2	Phenol	1805.99	2600
541-73-1	1,3-Dichlorobenzene	2493.98	U
106-46-7	1,4-Dichlorobenzene	2407.98	14000
95-50-1	1,2-Dichlorobenzene	2278.98	12000
100-51-6	Benzyl alcohol	1655.49	U
108-60-1	2,2-oxybis(1-Chloropropane)	2988.48	U
95-48-7	2-Methylphenol	2687.48	U
67-72-1	Hexachloroethane	2364.98	U
621-64-7	N-Nitrosodi-n-propylamine	2278.98	U
106-44-5	4-Methylphenol	2816.48	U
98-95-3	Nitrobenzene	1805.99	U
78-59-1	Isophorone	1913.48	U
88-75-5	2-Nitrophenol	2192.98	U
105-67-9	2,4-Dimethylphenol	5503.96	U
111-91-1	Bis(2-chloroethoxy)methane	1784.49	U
120-83-2	2,4-Dichlorophenol	1741.49	U
120-82-1	1,2,4-Trichlorobenzene	2171.48	U
91-20-3	Naphthalene	2106.98	22000
65-85-0	Benzoic acid	3998.97	U
106-47-8	4-Chloroaniline	1418.99	U
87-68-3	Hexachlorobutadiene	2472.48	U
91-57-6	2-Methylnaphthalene	1827.49	5900
59-50-7	4-Chloro-3-methylphenol	2149.98	U
77-47-4	Hexachlorocyclopentadiene	3009.98	U
88-06-2	2,4,6-Trichlorophenol	3224.97	U
95-95-4	2,4,5-Trichlorophenol	5783.45	U
91-58-7	2-Chloronaphthalene	2020.98	U
88-74-4	2-Nitroaniline	1526.49	U
208-96-8	Acenaphthylene	1311.49	U
131-11-3	Dimethyl phthalate	1827.49	U
606-20-2	2,6-Dinitrotoluene	2085.48	U
83-32-9	Acenaphthene	1311.49	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMOVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
**METHOD 8270**  
**PAGE Two**

**SAMPLE ID:** SS-013-02  
**LAB ID:** 9912/6102-002  
**PARENT ORDER NUMBER:** 175070

<u>CAS NUMBER</u>		QUANT. FACTOR :	0.00
		<b>METHOD DETECTION LIMIT</b> <u>µg/KG</u>	<b>RESULTS</b> <u>µg/KG</u> (Dry Weight Basis)
99-09-2	3-Nitroaniline	2300.48	U
51-28-5	2,4-Dinitrophenol	2085.48	U
132-64-9	Dibenzofuran	2192.98	U
121-14-2	2,4-Dinitrotoluene	1762.99	U
100-02-7	4-Nitrophenol	4364.47	U
86-73-7	Fluorene	1569.49	U
7005-72-3	4-Chlorophenyl phenyl ether	1461.99	U
84-66-2	Diethyl phthalate	1741.49	U
100-01-6	4-Nitroaniline	1805.99	U
534-52-1	4,6-Dinitro-2-methylphenol	3525.97	U
86-30-6	N-Nitrosodiphenylamine	2063.98	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	1526.49	U
101-55-3	4-Bromophenyl phenyl ether	1547.99	U
118-74-1	Hexachlorobenzene	1483.49	U
1912-24-9	Atrazine	6449.95	U
87-86-5	Pentachlorophenol	3504.47	U
85-01-8	Phenanthrene	1246.99	1200
120-12-7	Anthracene	1633.99	U
86-74-8	Carbazole	1913.48	U
15972-60-8	Alachlor	6449.95	U
84-74-2	Di-n-butyl phthalate	2751.98	12000
206-44-0	Fluoranthene	1375.99	U
92-87-5	Benzidine	21499.83	U
129-00-0	Pyrene	1676.99	U
85-68-7	Butyl benzyl phthalate	859.99	U
56-55-3	Benz(a)anthracene	1483.49	U
218-01-9	Chrysene	1891.98	U
91-94-1	3,3'-Dichlorobenzidine	2601.48	U
117-81-7	Bis(2-ethylhexyl)phthalate	2751.98	43000
117-84-0	Di-n-octyl phthalate	1633.99	U
205-99-2	Benzo(b)fluoranthene	3052.98	U
207-08-9	Benzo(k)fluoranthene	3482.97	U
50-32-8	Benzo(a)pyrene	1397.49	U
193-39-5	Indeno(1,2,3-cd)pyrene	1741.49	U
53-70-3	Dibenz(a,h)anthracene	1203.99	U
191-24-2	Benzo(g,h,i)perylene	1827.49	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMOVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Three

SAMPLE ID: SS-013-02

LAB ID: 9912/6102-002

PARENT ORDER NUMBER: 175070

QUANT FACTOR : 0.00

CAS NUMBER

METHOD DETECTION

LIMIT

µg/KG

RESULTS

µg/KG

(Dry Weight Basis)

SURROGATE RECOVERY RESULTS

CAS NUMBER	SURROGATE
321-60-8	2-Fluorobiphenyl
367-12-4	2-Fluorophenol
4165-60-0	Nitrobenzene-d5
4165-62-2	Phenol-d5
1718-51-0	p-Terphenyl-d14
118-79-6	2,4,6-Tribromophenol

% RECOVERY
0
0
0
0
0
0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/05/01 14:40  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-02  
LAB ID: 9912/6102-002  
PARENT ORDER NUMBER: 175070

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>PRACTICAL QUANTITATION LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u>	<u>RESULTS</u>
			<u>µg/KG</u>
12674-11-2	A-1016	6450	6350J
1104-28-2	A-1221	6450	U
11141-16-5	A-1232	6450	U
53469-21-9	A-1242	6450	U
12672-29-6	A-1248	6450	U
11097-69-1	A-1254	6450	U
11096-82-5	A-1260	6450	9890

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	0
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 14:40  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SS-013-03  
LAB ID: 9912006102-003  
DATE COLLECTED: 06/05/01 17:00  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	7.20 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	84.2 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.71 B mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	9.54 mg/Kg	
TOTAL LEAD	SW-846 6010A	70.2 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.200 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
PH	SW-846 9045	7.540	06/08/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the  
Method Detection Limit (MDL) but less than  
the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL TESTS, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-03  
LAB ID: 9912/6102-003  
PARENT ORDER NUMBER: 175071

CAS NUMBER	PRACTICAL QUANTITATION	LIMIT	RESULTS
		µg/Kg	µg/Kg (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	6.1	U
74-87-3	Chloromethane	12.1	U
75-01-4	Vinyl chloride	2.4	U
74-83-9	Bromomethane	12.1	U
75-00-3	Chloroethane	12.1	U
75-69-04	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
67-64-1	Acetone	60.7	U
108-05-4	Vinyl Acetate	60.7	U
74-88-4	Methyl Iodide	12.1	U
75-15-0	Carbon disulfide	6.1	U
107-05-1	Allyl Chloride	6.1	U
75-05-8	Acetonitrile	6.1	U
75-09-2	Methylene chloride	6.1	U
107-13-1	Acrylonitrile	6.1	U
1634-04-4	Methyl tert butyl ether	2.4	U
156-60-5	trans-1,2-Dichloroethene	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
107-02-8	Acrolein	121	U
156-59-2	cis-1,2-Dichloroethene	6.1	7.1
78-93-3	2-Butanone (MEK)	60.7	U
594-20-7	2,2-Dichloropropane	6.1	U
107-12-0	Propronitrile	6.1	U
126-98-7	Methacrylonitrile	60.7	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	10.1
563-58-6	1,1-Dichloropropene	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
71-43-2	Benzene	2.4	4.3
79-01-6	Trichloroethene	6.1	117
78-37-5	1,2-Dichloropropane	6.1	U
60-62-6	Methyl Methacrylate	12.1	U

ROY E. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LTINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PC: ---

ENVIRONMETRICS, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-03  
LAB ID: 9912/6102-003  
PARENT ORDER NUMBER: 175071

CAS NUMBER	PRACTICAL QUANTITATION		RESULTS µg/Kg (Dry Weight Basis)
	LIMIT µg/Kg		
99-87-6 p-isopropyltoluene	6.1		U
106-46-7 1,4-Dichlorobenzene	6.1		U
95-50-1 1,2-Dichlorobenzene	6.1		U
104-51-8 n-Butylbenzene	6.1		U
96-12-8 1,2-Dibromo-3-chloropropane	6.1		U
120-82-1 1,2,4-Trichlorobenzene	6.1		U
87-68-3 Hexachlorobutadiene	6.1		U
91-20-3 Naphthalene	12.1		U
87-61-6 1,2,3-Trichlorobenzene	6.1		U
110-75-8 2-Chloroethyl vinyl ether	6.1		U

SURROGATE RECOVERY RESULTS

	% RECOVERY
1,2-Dichloroethane-d4	129
4-Bromofluorobenzene	92.4
Dibromofluoromethane	111
Toluene-d8	102

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: T.L.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE One

SAMPLE ID: SS-013-03

LAB ID: 9912/6102-003

PARENT ORDER NUMBER: 175071

CAS NUMBER	QUANT. FACTOR :	405.47	RESULTS
	METHOD DETECTION LIMIT	<u>µg/KG</u>	<u>µg/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	871.75	U
62-75-9	n-Nitrosodimethylamine	632.53	U
62-53-3	Aniline	916.35	U
111-44-4	Bis(2-chloroethyl)ether	368.97	U
95-57-8	2-Chlorophenol	450.07	U
108-95-2	Phenol	340.59	U
541-73-1	1,3-Dichlorobenzene	470.34	U
106-46-7	1,4-Dichlorobenzene	454.12	U
95-50-1	1,2-Dichlorobenzene	429.79	U
100-51-6	Benzyl alcohol	312.21	U
108-60-1	2,2-oxybis(I-Chloropropane)	563.60	U
95-48-7	2-Methylphenol	506.83	U
67-72-1	Hexachloroethane	446.01	U
621-64-7	N-Nitrosodi-n-propylamine	429.79	U
106-44-5	4-Methylphenol	531.16	U
98-95-3	Nitrobenzene	340.59	U
78-59-1	Isophorone	360.86	U
88-75-5	2-Nitrophenol	413.57	U
105-67-9	2,4-Dimethylphenol	1037.99	U
111-91-1	Bis(2-chloroethoxy)methane	336.54	U
120-83-2	2,4-Dichlorophenol	328.43	U
120-82-1	1,2,4-Trichlorobenzene	409.52	U
91-20-3	Naphthalene	397.36	U
65-85-0	Benzoic acid	754.17	U
106-47-8	4-Chloroaniline	267.61	U
87-68-3	Hexachlorobutadiene	466.29	U
91-57-6	2-Methylnaphthalene	344.65	U
59-50-7	4-Chloro-3-methylphenol	405.47	U
77-47-4	Hexachlorocyclopentadiene	567.65	U
88-06-2	2,4,6-Trichlorophenol	608.20	U
95-95-4	2,4,5-Trichlorophenol	1090.70	U
91-58-7	2-Chloronaphthalene	381.14	U
88-74-4	2-Nitroaniline	287.88	U
208-96-8	Acenaphthylene	247.33	U
131-11-3	Dimethyl phthalate	344.65	U
606-20-2	2,6-Dinitrotoluene	393.30	U
83-32-9	Acenaphthene	247.33	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SS-013-03  
LAB ID: 9912/6102-003  
PARENT ORDER NUMBER: 175071

CAS NUMBER	METHOD DETECTION	QUANT. FACTOR :	0.00	RESULTS
	LIMIT	µg/KG		µg/KG
99-09-2	3-Nitroaniline	433.85		U
51-28-5	2,4-Dinitrophenol	393.30		U
132-64-9	Dibenzofuran	413.57		U
121-14-2	2,4-Dinitrotoluene	332.48		U
100-02-7	4-Nitrophenol	823.10		U
86-73-7	Fluorene	295.99		U
7005-72-3	4-Chlorophenyl phenyl ether	275.72		U
84-66-2	Diethyl phthalate	328.43		U
100-01-6	4-Nitroaniline	340.59		U
534-52-1	4,6-Dinitro-2-methylphenol	664.96		U
86-30-6	N-Nitrosodiphenylamine	389.25		U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	287.88		U
101-55-3	4-Bromophenyl phenyl ether	291.94		U
118-74-1	Hexachlorobenzene	279.77		U
1912-24-9	Atrazine	1216.40		U
87-86-5	Pentachlorophenol	660.91		U
85-01-8	Phenanthrene	235.17		U
120-12-7	Anthracene	308.15		U
86-74-8	Carbazole	360.86		U
15972-60-8	Alachlor	1216.40		U
84-74-2	Di-n-butyl phthalate	519.00		U
206-44-0	Fluoranthene	259.50		U
92-87-5	Benzidine	4054.66		U
129-00-0	Pyrene	316.26		U
85-68-7	Butyl benzyl phthalate	162.19		U
56-55-3	Benz(a)anthracene	279.77		U
218-01-9	Chrysene	356.81		U
91-94-1	3,3'-Dichlorobenzidine	490.61		U
117-81-7	Bis(2-ethylhexyl)phthalate	519.00		U
117-84-0	Di-n-octyl phthalate	308.15		U
205-99-2	Benzo(b)fluoranthene	575.76		U
207-08-9	Benzo(k)fluoranthene	656.85		U
50-32-8	Benzo(a)pyrene	263.55		U
193-39-5	Iodo(1,2,3-cd)pyrene	328.43		U
53-70-3	Dibenz(a,h)anthracene	227.06		U
191-24-2	Benzo(g,h,i)perylene	344.65		U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SS-013-03

LAB ID: 9912/6102-003

PARENT ORDER NUMBER: 175071

QUANT FACTOR : 0.00

### METHOD DETECTION

LIMIT  
µg/KG

RESULTS  
µg/KG  
(Dry Weight Basis)

CAS NUMBER

### SURROGATE RECOVERY RESULTS

	<u>% RECOVERY</u>
321-60-8	125
367-12-4	67
4165-60-0	92
4165-62-2	79
1718-51-0	111
118-79-6	66

2-Fluorobiphenyl

2-Fluorophenol

Nitrobenzene-d5

Phenol-d5

p-Terphenyl-d14

2,4,6-Tribromophenol

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/05/01 17:00

DATE RECEIVED: 06/06/01

DATE ANALYZED: 06/15/01

ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-03  
LAB ID: 9912/6102-003  
PARENT ORDER NUMBER: 175071

QUANT FACTOR : 0.00

CAS NUMBER	PRACTICAL QUANTITATION		RESULTS ng/KG
	LIMIT ng/KG	QUANT ng/KG	

12674-11-2	A-1016	81	U
1104-28-2	A-1221	81	U
11141-16-5	A-1232	81	46.1J
53469-21-9	A-1242	81	U
12672-29-6	A-1248	81	U
11097-69-1	A-1254	81	U
11096-82-5	A-1260	81	136

### SURROGATE RECOVERY RESULTS

		% RECOVERY
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	104

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 17:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2561 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive

St. Louis, MO 63146

(314) 432-0550

Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SS-013-04  
LAB ID: 9912006102-004  
DATE COLLECTED: 06/05/01 15:00  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	7.38 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	485 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	25.0 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	446 mg/Kg	
TOTAL LEAD	SW-846 6010A	2451 mg/Kg	
TOTAL MERCURY	SW-846 7471A	1.20 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
PH	SW-846 9045	5.390	06/08/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	130 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-04

LAB ID: 9912/6102-004

PARENT ORDER NUMBER: 175072

QUANT FACTOR : 645244.55

<u>CAS NUMBER</u>	COMPOUND NAME	<u>PRACTICAL QUANTITATION</u>	
		<u>LIMIT</u> <u>µg/Kg</u>	<u>RESULTS</u> <u>µg/Kg</u> (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	3226223	U
74-87-3	Chloromethane	6452445	U
75-01-4	Vinyl chloride	3226223	U
74-83-9	Bromomethane	3226223	U
75-00-3	Chloroethane	3226223	U
75-69-04	Trichlorofluoromethane	3226223	U
75-35-4	1,1-Dichloroethene	3226223	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3226223	U
67-64-1	Acetone	12904891	U
108-05-4	Vinyl Acetate	6452445	U
74-88-4	Methyl Iodide	3226223	U
75-15-0	Carbon disulfide	6452445	U
107-05-1	Allyl Chloride	3226223	U
75-05-8	Acetonitrile	6452445	U
75-09-2	Methylene chloride	12904891	1300000J
107-13-1	Acrylonitrile	6452445	U
1634-04-4	Methyl tert butyl ether	6452445	U
156-60-5	trans-1,2-Dichloroethene	3226223	U
75-34-3	1,1-Dichloroethane	3226223	U
107-02-8	Acrolein	6452445	U
156-59-2	cis-1,2-Dichloroethene	3226223	U
78-93-3	2-Butanone (MEK)	3226223	U
594-20-7	2,2-Dichloropropane	3226223	U
107-12-0	Propionitrile	3226223	U
126-98-7	Methacrylonitrile	3226223	U
74-97-5	Bromoform	3226223	U
67-66-3	Chloroform	3226223	U
71-55-6	1,1,1-Trichloroethane	3226223	U
563-58-6	1,1-Dichloropropene	3226223	U
56-23-5	Carbon tetrachloride	3226223	U
107-06-2	1,2-Dichloroethane	3226223	U
71-43-2	Benzene	3226223	U
79-01-6	Trichloroethene	3226223	U
78-87-5	1,2-Dichloropropane	3226223	U
80-62-6	Methyl Methacrylate	3226223	U
123-91-1	1,4-Dioxane	3226223	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SS-013-04

LAB ID: 9912/6102-004

PARENT ORDER NUMBER: 175072

CAS NUMBER	QUANT FACTOR :	0.00
	PRACTICAL QUANTITATION LIMIT	RESULTS
	<u>µg/Kg</u>	<u>µg/Kg</u> (Dry Weight Basis)
74-95-3	3226223	U
78-83-1	6452445	U
75-27-4	3226223	U
10061-02-6	3226223	U
108-10-1	6452445	U
76-46-9	6452445	U
108-88-3	3226223	2300000J
10061-01-5	3226223	U
97-63-2	3226223	U
79-00-5	3226223	U
127-18-4	3226223	U
142-28-9	3226223	U
591-78-6	6452445	U
124-48-1	3226223	U
106-93-4	3226223	U
108-90-7	3226223	9400000
630-20-6	3226223	U
100-41-4	3226223	U
108-38-3	3226223	4900000
95-47-6	3226223	1500000J
100-42-5	3226223	U
75-25-2	3226223	U
98-82-8	3226223	U
79-34-5	3226223	U
108-86-1	3226223	U
110-57-6	3226223	U
96-18-4	3226223	U
103-65-1	3226223	U
95-49-8	3226223	U
108-67-8	3226223	U
106-43-4	3226223	U
98-06-6	3226223	U
95-63-6	3226223	U
135-98-8	3226223	U
541-73-1	3226223	U
99-87-6	3226223	U
106-46-7	3226223	4700000

ROY F. WESTON, INC.  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-04

LAB ID: 9912/6102-004

PARENT ORDER NUMBER: 175072

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION LIMIT <u>µg/Kg</u>	<u>RESULTS</u> <u>µg/Kg</u>	
		(Dry Weight Basis)	
95-50-1	1,2-Dichlorobenzene	3226223	2900000J
104-51-8	n-Butylbenzene	3226223	U
96-12-8	1,2-Dibromo-3-chloropropane	3226223	U
120-82-1	1,2,4-Trichlorobenzene	3226223	U
87-68-3	Hexachlorobutadiene	6452445	U
91-20-3	Naphthalene	6452445	U
87-61-6	1,2,3-Trichlorobenzene	3226223	U
110-75-8	2-Chloroethyl vinyl ether	6452445	U

SURROGATE RECOVERY RESULTS

		% RECOVERY
460-00-4	4-Bromofluorobenzene	99
17060-07-0	1,2-Dichloroethane-d4	92
2037-26-5	Toluene-d8	94

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 15:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
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Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SS-013-04  
LAB ID: 9912/6102-004  
PARENT ORDER NUMBER: 175072

QUANT FACTOR : 25809.78

<u>CAS NUMBER</u>	DESCRIPTION	METHOD DETECTION	
		LIMIT <u>ug/KG</u>	RESULTS <u>ug/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	55491.03	U
62-75-9	n-Nitrosodimethylamine	40263.26	U
62-53-3	Aniline	58330.11	U
111-14-4	Bis(2-chloroethyl)ether	23486.90	U
95-57-8	2-Chlorophenol	28648.86	U
108-95-2	Phenol	21680.22	78000
541-73-1	1,3-Dichlorobenzene	29939.35	U
106-46-7	1,4-Dichlorobenzene	28906.96	2100000
95-50-1	1,2-Dichlorobenzene	27358.37	1600000
100-51-6	Benzyl alcohol	19873.53	U
108-60-1	2,2-oxybis(I-Chloropropane)	35875.60	U
95-48-7	2-Methylphenol	32262.23	U
67-72-1	Hexachloroethane	28390.76	U
621-64-7	N-Nitrosodi-n-propylamine	27358.37	U
106-44-5	4-Methylphenol	33810.81	U
98-95-3	Nitrobenzene	21680.22	U
78-59-1	Isophorone	22970.71	U
88-75-5	2-Nitrophenol	26325.98	U
105-67-9	2,4-Dimethylphenol	66073.04	U
111-91-1	Bis(2-chloroethoxy)methane	21422.12	U
120-83-2	2,4-Dichlorophenol	20905.92	U
120-82-1	1,2,4-Trichlorobenzene	26067.88	50000
91-20-3	Naphthalene	25293.59	610000
65-85-0	Benzoic acid	48006.19	U
106-47-8	4-Chloroaniline	17034.46	U
87-68-3	Hexachlorobutadiene	29681.25	U
91-57-6	2-Methylnaphthalene	21938.31	140000
59-50-7	4-Chloro-3-methylphenol	25809.78	U
77-47-4	Hexachlorocyclopentadiene	36133.69	U
88-06-2	2,4,6-Trichlorophenol	38714.67	U
95-95-4	2,4,5-Trichlorophenol	69428.31	U
91-58-7	2-Chloronaphthalene	24261.19	U
88-74-4	2-Nitroaniline	18324.95	U
208-96-8	Acenaphthylene	15743.97	U
131-11-3	Dimethyl phthalate	21938.31	U
606-20-2	2,6-Dinitrotoluene	25035.49	U
83-32-9	Acenaphthene	15743.97	41000

ROY F. WESTON, INC.  
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OKEMOS, MI 48864

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PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SS-013-04  
LAB ID: 9912/6102-004  
PARENT ORDER NUMBER: 175072

<u>CAS NUMBER</u>		QUANT FACTOR :	0.00	<u>RESULTS</u> <u>ug/KG</u> (Dry Weight Basis)
			<u>METHOD DETECTION</u> <u>LIMIT</u> <u>ug/KG</u>	
99-09-2	3-Nitroaniline	27616.47		U
51-28-5	2,4-Dinitrophenol	25035.49		U
132-64-9	Dibenzofuran	26325.98		U
121-14-2	2,4-Dinitrotoluene	21164.02		U
100-02-7	4-Nitrophenol	52393.86		U
86-73-7	Fluorene	18841.14	96000	
7005-72-3	4-Chlorophenyl phenyl ether	17550.65		U
84-66-2	Diethyl phthalate	20905.92		U
100-01-6	4-Nitroaniline	21680.22		U
534-52-1	4,6-Dinitro-2-methylphenol	42328.04		U
86-30-6	N-Nitrosodiphenylamine	24777.39		U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	18324.95		U
101-55-3	4-Bromophenyl phenyl ether	18583.04		U
118-74-1	Hexachlorobenzene	17808.75		U
1912-24-9	Atrazine	77429.35		U
87-86-5	Pentachlorophenol	42069.94		U
85-01-8	Phenanthrene	14969.67	230000	
120-12-7	Anthracene	19615.43		U
86-74-8	Carbazole	22970.71		U
15972-60-8	Alachlor	77429.35		U
84-74-2	Di-n-butyl phthalate	33036.52	220000	
206-44-0	Fluoranthene	16518.26	24000	
92-87-5	Benzidine	258097.82		U
129-00-0	Pyrene	20131.63	82000	
85-68-7	Butyl benzyl phthalate	10323.91	19000	
56-55-3	Benz(a)anthracene	17808.75		U
218-01-9	Chrysene	22712.61	32000	
91-94-1	3,3'-Dichlorobenzidine	31229.84		U
117-81-7	Bis(2-ethylhexyl)phthalate	33036.52	430000	
117-84-0	Di-n-octyl phthalate	19615.43		U
205-99-2	Benzo(b)fluoranthene	36649.89		U
207-08-9	Benzo(k)fluoranthene	41811.85		U
50-32-8	Benzo(a)pyrene	16776.36		U
193-39-5	Indeno(1,2,3-cd)pyrene	20905.92		U
53-70-3	Dibenz(a,h)anthracene	14453.48		U
191-24-2	Benzo(g,h,i)perylene	21938.31		U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

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PROJECT NO: 0105-013

PO: ---

**ENVIRONMETRICS, INC.**

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SS-013-04

LAB ID: 9912/6102-004

PARENT ORDER NUMBER: 175072

QUANT FACTOR : 0.00

METHOD DETECTION

LIMIT

ng/KG

RESULTS

ng/KG

(Dry Weight Basis)

CAS NUMBER

SURROGATE RECOVERY RESULTS

% RECOVERY

321-60-8	2-Fluorobiphenyl
367-12-4	2-Fluorophenol
4165-60-0	Nitrobenzene-d5
4165-62-2	Phenol-d5
1718-51-0	p-Terphenyl-d14
118-79-6	2,4,6-Tribromophenol

0

0

0

0

0

0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/05/01 15:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-04  
LAB ID: 9912/6102-004  
PARENT ORDER NUMBER: 175072

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>PRACTICAL QUANTITATION</u>		<u>RESULTS</u> <u>µg/KG</u>
	<u>LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u>	

12674-11-2	A-1016	103239	899000
1104-28-2	A-1221	103239	U
11141-16-5	A-1232	103239	U
53469-21-9	A-1242	103239	U
12672-29-6	A-1248	103239	U
11097-69-1	A-1254	103239	U
11096-82-5	A-1260	103239	232000

### SURROGATE RECOVERY RESULTS

	<u>% RECOVERY</u>
2051-24-3	0
877-09-8	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 15:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive

St. Louis, MO 63146

(314) 432-0550

Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SS-013-05  
LAB ID: 9912006102-005  
DATE COLLECTED: 06/06/01 10:20  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	5.38 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	1621 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	2.53 B mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	459 mg/Kg	
TOTAL LEAD	SW-846 6010A	2665 mg/Kg	
TOTAL MERCURY	SW-846 7471A	1.40 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
PH	SW-846 9045	6.980	06/07/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL TESTS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-05  
LAB ID: 9912/6102-005  
PARENT ORDER NUMBER: 175074

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	10.9	20.9
75-01-4	Vinyl chloride	2.2	U
74-83-9	Bromomethane	10.9	U
75-00-3	Chloroethane	10.9	U
75-69-04	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
67-64-1	Acetone	139	163 B
108-05-4	Vinyl Acetate	54.3	U
74-88-4	Methyl Iodide	10.9	U
75-15-0	Carbon disulfide	5.4	U
107-05-1	Allyl Chloride	5.4	U
75-05-8	Acetonitrile	5.4	U
75-09-2	Methylene chloride	5.4	14.4
107-13-1	Acrylonitrile	5.4	U
1634-04-4	Methyl tert butyl ether	2.2	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
107-02-8	Acrolein	109	U
156-59-2	cis-1,2-Dichloroethene	5.4	6.5
78-93-3	2-Butanone (MEK)	54.3	154
594-20-7	2,2-Dichloropropane	5.4	U
107-12-0	Proprionitrile	5.4	U
126-98-7	Methacrylonitrile	54.3	U
74-97-5	Bromoform	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	6.1
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	2.2	17.2
79-01-6	Trichloroethene	5.4	12.1
78-87-5	1,2-Dichloropropane	5.4	U
80-62-6	Methyl Methacrylate	10.9	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

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(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL.  
METHOD 8260IX  
PAGE TWO

SAMPLE ID: SS-013-05  
LAB ID: 9912/6102-005  
PARENT ORDER NUMBER: 175074

CAS NUMBER	PRACTICAL QUANTITATION LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)
123-91-1	1,4-Dioxane	U
74-95-3	Dibromomethane	U
78-83-1	Isobutyl Alcohol	U
15-27-4	Bromoform	U
10061-02-6	trans-1,3-Dichloropropene	U
108-10-1	4-Methyl-2-pentanone	54.3 83.6
76-46-9	2-Nitropropane	U
108-88-3	Toluene	5.4 35.1
10061-01-5	cis-1,3-Dichloropropene	U
97-63-2	Ethyl Methacrylate	U
79-00-5	1,1,2-Trichloroethane	U
127-18-4	Tetrachloroethene	5.4 6.0
142-28-9	1,3-Dichloropropane	U
591-78-6	2-Hexanone	54.3 U
124-48-1	Chlorodibromomethane	10.9 U
106-93-4	1,2-Dibromoethane	U
108-90-7	Chlorobenzene	U
630-20-6	1,1,1,2-Tetrachloroethane	U
100-41-4	Ethylbenzene	U
108-38-3	m,p-Xylene	5.4 10.6
95-47-6	o-Xylene	U
100-42-5	Styrene	U
75-25-2	Bromoform	U
98-82-8	Isopropylbenzene	U
79-34-5	1,1,2,2-Tetrachloroethane	U
108-86-1	Bromobenzene	U
110-57-6	trans-1,4-Dichloro-2-butene	U
96-18-4	1,2,3-Trichloropropane	10.9 U
103-65-1	n-Propylbenzene	U
95-49-8	2-Chlorotoluene	U
108-67-8	1,3,5-Trimethylbenzene	U
106-43-4	4-Chlorotoluene	U
98-06-6	t-Butylbenzene	U
95-63-6	1,2,4-Trimethylbenzene	U
135-98-8	sec-Butylbenzene	5.4 5.9
541-73-1	1,3-Dichlorobenzene	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54363  
PROJECT NO: 0105-013  
PO: \*\*\*

ENVIRONMENTAL, INC.  
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(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL.  
METHOD 8260IX  
PAGE THREE

SAMPLE ID: SS-014-05  
LAB ID: 9912/6102-005  
PARENT ORDER NUMBER: 175074

CAS NUMBER	PRACTICAL QUANTITATION LIMIT µg/Kg	RESULTS	
		µg/Kg	(Dry Weight Basis)
89-87-6	p-Isopropyltoluene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
91-20-3	Naphthalene	10.9	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
110-75-8	2-Chloroethyl vinyl ether	5.4	U

SURROGATE RECOVERY RESULTS

	% RECOVERY
1,2-Dichloroethane-d4	126
4-Bromofluorobenzene	90.6
Dibromofluoromethane	112
Toluene-d8	97.1

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/20/01  
ANALYST: T.L.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SS-013-05

LAB ID: 9912/6102-005

PARENT ORDER NUMBER: 175073

QUANT FACTOR : 1920.57

CAS NUMBER

	RESULTS <u>µg/KG</u>	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)	
			U	U
110-86-1		4129.22		U
62-75-9		2996.08		U
62-53-3		4340.48		U
111-44-4		1747.71		U
95-57-8		2131.83		U
108-95-2		1613.27		U
541-73-1		2227.86		U
106-46-7		2151.03	4200	
95-50-1		2035.80		3000
100-51-6		1478.84		U
108-60-1		2669.59		U
95-48-7		2400.71		U
67-72-1		2112.62		U
621-64-7		2035.80		U
106-44-5		2515.94		U
98-95-3		1613.27		U
78-59-1		1709.30		U
88-75-5		1958.98		U
105-67-9		4916.65		U
111-91-1		1594.07		U
120-83-2		1555.66		U
120-82-1		1939.77		U
91-20-3		1882.15	2000	
65-85-0		3572.25		U
106-47-8		1267.57		U
87-68-3		2208.65		U
91-57-6		1632.48		U
59-50-7		1920.57		U
77-47-4		2688.79		U
88-06-2		2880.85		U
95-95-4		5166.32		U
91-58-7		1805.33		U
88-74-4		1363.60		U
208-96-8		1171.54		U
131-11-3		1632.48		U
606-20-2		1862.95		U
83-32-9		1171.54		U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Two

SAMPLE ID: SS-013-05

LAB ID: 9912/6102-005

PARENT ORDER NUMBER: 175073

CAS NUMBER	QUANT FACTOR :	0.00	RESULTS
	METHOD DETECTION LIMIT	<u>ug/KG</u>	<u>ug/KG</u>
99-09-2	3-Nitroaniline	2055.00	U
51-28-5	2,4-Dinitrophenol	1862.95	U
132-64-9	Dibenzofuran	1958.98	U
121-14-2	2,4-Dinitrotoluene	1574.86	U
100-02-7	4-Nitrophenol	3898.75	U
86-73-7	Fluorene	1402.01	U
7005-72-3	4-Chlorophenyl phenyl ether	1305.98	U
84-66-2	Diethyl phthalate	1555.66	U
100-01-6	4-Nitroaniline	1613.27	U
534-52-1	4,6-Dinitro-2-methylphenol	3149.73	U
86-30-6	N-Nitrosodiphenylamine	1843.74	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	1363.60	U
101-55-3	4-Bromophenyl phenyl ether	1382.81	U
118-74-1	Hexachlorobenzene	1325.19	U
1912-24-9	Atrazine	5761.70	U
87-86-5	Pentachlorophenol	3130.52	U
85-01-8	Phenanthrene	1113.93	U
120-12-7	Anthracene	1459.63	U
86-74-8	Carbazole	1709.30	U
15972-60-8	Alachlor	5761.70	U
84-74-2	Di-n-butyl phthalate	2458.32	2700
206-44-0	Fluoranthene	1229.16	U
92-87-5	Benzidine	19205.65	U
129-00-0	Pyrene	1498.04	U
85-68-7	Butyl benzyl phthalate	768.23	U
56-55-3	Benz(a)anthracene	1325.19	U
218-01-9	Chrysene	1690.10	U
91-94-1	3,3'-Dichlorobenzidine	2323.88	U
117-81-7	Bis(2-ethylhexyl)phthalate	2458.32	37000
117-84-0	Di-n-octyl phthalate	1459.63	U
205-99-2	Benzo(b)fluoranthene	2727.20	U
207-08-9	Benzo(k)fluoranthene	3111.32	U
50-32-8	Benzo(a)pyrene	1248.37	U
193-39-5	Ideeno(1,2,3-cd)pyrene	1555.66	U
53-70-3	Dibenz(a,h)anthracene	1075.52	U
191-24-2	Benzo(g,h,i)perylene	1632.48	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Three

SAMPLE ID: SS-013-05  
LAB ID: 9912/6102-005  
PARENT ORDER NUMBER: 175073

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	METHOD DETECTION LIMIT <u>ug/KG</u>	RESULTS <u>ug/KG</u> (Dry Weight Basis)

### SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
321-60-8	2-Fluorobiphenyl	0
367-12-4	2-Fluorophenol	0
4165-60-0	Nitrobenzene-d5	0
4165-62-2	Phenol-d5	0
1718-51-0	p-Terphenyl-d14	0
118-79-6	2,4,6-Tribromophenol	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/06/01 10:20  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-05  
LAB ID: 9912/6102-005  
PARENT ORDER NUMBER: 175073

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION	<u>RESULTS</u> <u>µg/KG</u>
		LIMIT <u>µg/KG</u>	
12674-11-2	A-1016	384	U
1104-28-2	A-1221	384	U
11141-16-5	A-1232	384	U
53469-21-9	A-1242	384	U
12672-29-6	A-1248	384	U
11097-69-1	A-1254	384	U
11096-82-5	A-1260	384	526

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	70

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 10:20  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-06

LAB ID: 9912/6102-006

PARENT ORDER NUMBER: 175076

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>A-1016</u>	<u>PRACTICAL QUANTITATION</u>	
		<u>LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u>
12674-11-2	A-1016	263	U
1104-28-2	A-1221	263	U
11141-16-5	A-1232	263	U
53469-21-9	A-1242	263	U
12672-29-6	A-1248	263	U
11097-69-1	A-1254	263	U
11096-82-5	A-1260	263	609

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	85

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 15:00  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## ANALYSIS RESULTS

SAMPLE ID: SS-013-06  
LAB ID: 9912006102-006  
DATE COLLECTED: 06/06/01 15:00  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	23.4 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	147 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	4.70 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	60.3 mg/Kg	
TOTAL LEAD	SW-846 6010A	2576 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.300 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	0.739 B mg/Kg	
PH	SW-846 9045	7.310	06/07/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

ENVIRONMENTAL, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260TX  
PAGE One

SAMPLE ID: SS-013-06  
LAB ID: 9912/6102-006  
PARENT ORDER NUMBER: 175075

CAS NUMBER		PRACTICAL QUANTITATION	
		LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	197	0
74-87-3	Chloromethane	395	0
75-01-4	Vinyl chloride	78.9	0
74-83-9	Bromomethane	395	0
75-00-3	Chloroethane	395	0
75-69-04	Trichlorofluoromethane	197	0
75-35-4	1,1-Dichloroethene	197	0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	197	0
67-64-1	Acetone	1970	0
108-05-4	Vinyl Acetate	1970	0
74-88-4	Methyl Iodide	395	0
75-15-0	Carbon disulfide	197	0
107-05-1	Allyl Chloride	197	0
75-05-8	Acetonitrile	197	0
75-09-2	Methylene chloride	197	0
107-13-1	Acrylonitrile	197	0
1634-04-4	Methyl tert butyl ether	78.9	0
156-60-5	trans-1,2-Dichloroethene	197	0
75-34-3	1,1-Dichloroethane	197	0
107-02-8	Acrolein	3950	0
156-59-2	cis-1,2-Dichloroethene	197	0
78-93-3	2-Butanone (MEK)	1970	0
594-20-7	2,2-Dichloropropane	197	0
107-12-0	Propronitrile	197	0
126-98-7	Methacrylonitrile	1970	0
74-97-5	Bromochloromethane	197	0
67-66-3	Chloroform	197	0
71-55-6	1,1,1-Trichloroethane	197	694
563-58-6	1,1-Dichloropropene	197	0
56-23-5	Carbon tetrachloride	197	0
107-06-2	1,2-Dichloroethane	197	0
71-43-2	Benzene	78.9	0
79-01-6	Trichloroethene	197	339
78-87-5	1,2-Dichloropropane	197	0
80-62-6	Methyl Methacrylate	395	0

ROY F. WESTON, INC.  
2601 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOPORKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

ENVIRONMENTAL SERVICES, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE TWO

SAMPLE ID: SS-010-06

LAB ID: 9912/6102-006

PARENT ORDER NUMBER: 175075

CAS NUMBER		PRACTICAL QUANTITATION LIMIT µg/Kg	RESULTS µg/Kg (Dry Weight Basis)
123-91-1	1,4-Dioxane	197	0
74-95-3	Dibromomethane	197	0
78-83-1	Isobutyl Alcohol	197	0
75-27-4	Bromodichloromethane	197	0
10061-02-6	trans-1,3-Dichloropropene	158	0
108-10-1	4-Methyl-2-pentanone	1970	0
76-46-9	2-Nitropropane	1970	0
108-88-3	Toluene	197	0
10061-01-5	cis-1,3-Dichloropropene	158	0
97-63-2	Ethyl Methacrylate	197	0
79-00-5	1,1,2-Trichloroethane	197	0
127-18-4	Tetrachloroethene	3950	61200
142-28-9	1,3-Dichloropropane	197	0
591-78-6	2-Hexanone	1970	0
124-48-1	Chlorodibromomethane	395	0
106-93-4	1,2-Dibromoethane	197	0
108-90-7	Chlorobenzene	197	0
630-20-6	1,1,1,2-Tetrachloroethane	197	0
100-41-4	Ethylbenzene	197	0
108-38-3	m&p-Xylene	197	0
95-47-6	o-Xylene	197	0
100-42-5	Styrene	197	0
75-25-2	Bromoform	197	0
98-82-8	Isopropylbenzene	197	0
79-34-5	1,1,2,2-Tetrachloroethane	197	0
108-86-1	Bromobenzene	197	0
110-57-6	trans-1,4-Dichloro-2-butene	197	0
96-18-4	1,2,3-Trichloropropane	395	0
103-65-1	n-Propylbenzene	197	0
95-49-8	2-Chlorotoluene	197	0
108-67-8	1,3,5-Trimethylbenzene	197	0
106-43-4	4-Chlorotoluene	197	0
98-06-6	t-Butylbenzene	197	0
95-63-6	1,2,4-Trimethylbenzene	197	0
135-98-8	sec-Butylbenzene	197	0
541-73-1	1,3-Dichlorobenzene	197	0

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

**ENVIRONMENTAL, INC.**

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-06  
LAB ID: 9912/6102-006  
PARENT ORDER NUMBER: 175075

CAS NUMBER		PRACTICAL QUANTITATION	RESULTS ng/Kg (Dry Weight Basis)
		LIMIT ug/Kg	
99-87-6	p-Isopropyltoluene	197	U
106-46-7	1,4-Dichlorobenzene	197	U
95-50-1	1,2-Dichlorobenzene	197	U
104-51-8	n-Butylbenzene	197	U
96-12-8	1,2-Dibromo-3-chloropropane	197	U
120-62-1	1,2,4-Trichlorobenzene	197	U
87-68-3	Hexachlorobutadiene	197	U
91-20-3	Naphthalene	395	U
87-61-6	1,2,3-Trichlorobenzene	197	U
110-75-8	2-Chloroethyl vinyl ether	197	U

SURROGATE RECOVERY RESULTS

	% RECOVERY
1,2-Dichloroethane-d4	116
4-Bromofluorobenzene	99.2
Dibromofluoromethane	103
Toluene-d8	100

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01

DATE RECEIVED: 06/06/01

DATE ANALYZED: 06/20/01

ANALYST: T.L.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI. 48864

ATTN: LINPA KOROBKA

INVOICE: 54369  
PROJECT NO: C105-013  
PO: ---

ROY F. WESTON, INC.  
11401 Moog Drive  
St. Louis, MO 63146  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL.  
METHOD 8260IX  
PAGE TWO

SAMPLE ID: SS-013-05  
LAB ID: 9912/6102-005  
PARENT ORDER NUMBER: 175074

CAS NUMBER		PRACTICAL QUANTITATION		RESULTS µg/Kg (Dry Weight Basis)
		LIMIT µg/Kg		
123-91-1	1,4-Dioxane	5.4		U
74-95-3	Dibromomethane	5.4		U
78-83-1	Isobutyl Alcohol	5.4		U
75-27-4	Bromodichloromethane	5.4		U
10061-02-6	trans-1,3-Dichloropropene	5.4		U
108-10-1	4-Methyl-2-pentanone	54.3		83.6
76-46-9	2-Nitropropane	54.3		U
108-88-3	Toluene	5.4		35.1
10061-01-5	cis-1,3-Dichloropropene	4.3		U
97-63-2	Ethyl Methacrylate	5.4		U
79-00-5	1,1,2-Trichloroethane	5.4		U
127-18-4	Tetrachloroethene	5.4		6.0
142-28-9	1,3-Dichloropropane	5.4		U
591-78-6	2-Hexanone	54.3		U
124-48-1	Chlorodibromomethane	10.9		U
106-93-4	1,2-Dibromoethane	5.4		U
108-90-7	Chlorobenzene	5.4		U
630-20-6	1,1,1,2-Tetrachloroethane	5.4		U
100-41-4	Ethylbenzene	5.4		U
108-38-3	m&p-Xylene	5.4		10.6
95-47-6	o-Xylene	5.4		U
100-42-5	Styrene	5.4		U
75-25-2	Bromoform	5.4		U
98-82-8	Isopropylbenzene	5.4		U
79-34-5	1,1,2,2-Tetrachloroethane	5.4		U
108-86-1	Bromobenzene	5.4		U
110-57-6	trans-1,4-Dichloro-2-butene	5.4		U
96-19-4	1,2,3-Trichloropropane	10.9		U
103-65-1	n-Propylbenzene	5.4		U
95-49-8	2-Chlorotoluene	5.4		U
108-67-8	1,3,5-Trimethylbenzene	5.4		U
106-43-4	4-Chlorotoluene	5.4		U
98-06-6	t-Butylbenzene	5.4		U
95-63-6	1,2,4-Trimethylbenzene	5.4		U
135-98-8	sec-Butylbenzene	5.4		5.9
541-73-1	1,3-Dichlorobenzene	5.4		U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE One

SAMPLE ID: SS-013-06

LAB ID: 9912/6102-006

PARENT ORDER NUMBER: 175076

QUANT FACTOR :

526.26

<u>CAS NUMBER</u>		<u>METHOD DETECTION LIMIT</u> <u>ug/KG</u>	<u>RESULTS</u> <u>ug/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	1131.46	U
62-75-9	n-Nitrosodimethylamine	820.97	U
62-53-3	Aniline	1189.35	U
111-44-4	Bis(2-chloroethyl)ether	478.90	U
95-57-8	2-Chlorophenol	584.15	U
108-95-2	Phenol	442.06	U
541-73-1	1,3-Dichlorobenzene	610.46	U
106-46-7	1,4-Dichlorobenzene	589.41	2400
95-50-1	1,2-Dichlorobenzene	557.84	1400
100-51-6	Benzyl alcohol	405.22	U
108-60-1	2,2-oxybis(1-Chloropropane)	731.50	U
95-48-7	2-Methylphenol	657.83	U
67-72-1	Hexachloroethane	578.89	U
621-64-7	N-Nitrosodi-n-propylamine	557.84	U
106-44-5	4-Methylphenol	689.40	U
98-95-3	Nitrobenzene	442.06	U
78-59-1	Isophorone	468.37	U
88-75-5	2-Nitrophenol	536.79	U
105-67-9	2,4-Dimethylphenol	1347.23	U
111-91-1	Bis(2-chloroethoxy)methane	436.80	U
120-83-2	2,4-Dichlorophenol	426.27	U
120-82-1	1,2,4-Trichlorobenzene	531.52	U
91-20-3	Naphthalene	515.74	620
65-85-0	Benzoic acid	978.84	U
106-47-8	4-Chloroaniline	347.33	U
87-68-3	Hexachlorobutadiene	605.20	U
91-57-6	2-Methylnaphthalene	447.32	780
59-50-7	4-Chloro-3-methylphenol	526.26	U
77-47-4	Hexachlorocyclopentadiene	736.76	U
88-06-2	2,4,6-Trichlorophenol	789.39	U
95-95-4	2,4,5-Trichlorophenol	1415.64	U
91-58-7	2-Chloronaphthalene	494.68	U
88-74-4	2-Nitroaniline	373.64	U
208-96-8	Acenaphthylene	321.02	U
131-11-3	Dimethyl phthalate	447.32	U
606-20-2	2,6-Dinitrotoluene	510.47	U
83-32-9	Acenaphthene	321.02	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Two

SAMPLE ID: SS-013-06

LAB ID: 9912/6102-006

PARENT ORDER NUMBER: 175076

CAS NUMBER	QUANT FACTOR :	0.00
	METHOD DETECTION LIMIT	RESULTS
	µg/KG	µg/KG
99-09-2	563.10	U
51-28-5	510.47	U
132-64-9	536.79	U
121-14-2	431.53	U
100-02-7	1068.31	U
86-73-7	384.17	U
7005-72-3	357.86	U
84-66-2	426.27	U
100-01-6	442.06	U
534-52-1	863.07	U
86-30-6	505.21	U
103-33-3	373.64	U
101-55-3	378.91	U
118-74-1	363.12	U
1912-24-9	1578.78	U
87-86-5	857.80	U
85-01-8	305.23	1300
120-12-7	399.96	U
86-74-8	468.37	U
15972-60-8	1578.78	U
84-74-2	673.61	U
206-44-0	336.81	700
92-87-5	5262.60	U
129-00-0	410.48	800
85-68-7	210.50	U
56-55-3	363.12	U
218-01-9	463.11	570
91-94-1	636.78	U
117-81-7	673.61	U
117-84-0	399.96	U
205-99-2	747.29	U
207-08-9	852.54	U
50-32-8	342.07	U
193-39-5	426.27	U
53-70-3	294.71	U
191-24-2	447.32	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
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## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270  
PAGE Three

SAMPLE ID: SS-013-06

LAB ID: 9912/6102-006

PARENT ORDER NUMBER: 175076

QUANT FACTOR : 0.00

### CAS NUMBER

### METHOD DETECTION

LIMIT  
µg/KG

RESULTS  
µg/KG  
(Dry Weight Basis)

### SURROGATE RECOVERY RESULTS

	% RECOVERY
321-60-8	105
367-12-4	60
4165-60-0	85
4165-62-2	73
1718-51-0	99
118-79-6	78

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/06/01 15:00

DATE RECEIVED: 06/06/01

DATE ANALYZED: 06/15/01

ANALYST: J.K.

RCY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PO: ---  
PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SS-013-07  
LAB ID: 9912006102-007  
DATE COLLECTED: 06/06/01 15:10  
DATE RECEIVED: 06/06/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	5.04 B mg/Kg	06/14/01 J.T
TOTAL BARIUM	SW-846 6010A	509 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	31.6 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	1381 mg/Kg	
TOTAL LEAD	SW-846 6010A	6607 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.800 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	8.58 B mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
PH	SW-846 9045	7.180	06/07/01 M.U
IGNITABILITY (CLOSED CUP)	SW-846 1020	130 °F	06/07/01 M.U

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SS-013-07  
LAB ID: 9912/6102-007  
PARENT ORDER NUMBER: 175078

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION	
		LIMIT <u>ug/Kg</u>	RESULTS <u>ug/Kg</u> (Dry Weight Basis)
74-95-3	Dibromomethane	343548	U
78-83-1	Isobutyl Alcohol	687096	U
75-27-4	Bromodichloromethane	343548	U
10061-02-6	trans-1,3-Dichloropropene	343548	U
108-10-1	4-Methyl-2-pentanone	687096	U
76-46-9	2-Nitropropane	687096	U
108-88-3	Toluene	343548	6400000
10061-01-5	cis-1,3-Dichloropropene	343548	U
97-63-2	Ethyl Methacrylate	343548	U
79-00-5	1,1,2-Trichloroethane	343548	U
127-18-4	Tetrachloroethene	343548	U
142-28-9	1,3-Dichloropropane	343548	U
591-78-6	2-Hexanone	687096	U
124-48-1	Chlorodibromomethane	343548	U
106-93-4	1,2-Dibromoethane	343548	U
108-90-7	Chlorobenzene	343548	U
630-20-6	1,1,1,2-Tetrachloroethane	343548	U
100-41-4	Ethylbenzene	343548	3000000
108-38-3	m&p-Xylene	343548	15000000
95-47-6	o-Xylene	343548	4100000
100-42-5	Styrene	343548	U
75-25-2	Bromoform	343548	U
98-82-8	Isopropylbenzene	343548	1800000
79-34-5	1,1,2,2-Tetrachloroethane	343548	U
108-86-1	Bromobenzene	343548	U
110-57-6	trans-1,4-Dichloro-2-butene	343548	U
96-18-4	1,2,3-Trichloropropene	343548	U
103-65-1	n-Propylbenzene	343548	3300000
95-49-8	2-Chlorotoluene	343548	U
108-67-8	1,3,5-Trimethylbenzene	343548	680000
106-43-4	4-Chlorotoluene	343548	U
98-06-6	t-Butylbenzene	343548	U
95-63-6	1,2,4-Trimethylbenzene	343548	1900000
135-98-8	sec-Butylbenzene	343548	U
541-73-1	1,3-Dichlorobenzene	343548	U
99-87-6	p-Isopropyltoluene	343548	U
106-46-7	1,4-Dichlorobenzene	343548	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-07  
LAB ID: 9912/6102-007  
PARENT ORDER NUMBER: 175078

QUANT FACTOR : 68709.63

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION	<u>LIMIT</u>	<u>RESULTS</u>
		<u>µg/Kg</u>	<u>µg/Kg</u> (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	343548	U
74-87-3	Chloromethane	687096	U
75-01-4	Vinyl chloride	343548	U
74-83-9	Bromomethane	343548	U
75-00-3	Chloroethane	343548	U
75-69-04	Trichlorofluoromethane	343548	U
75-35-4	1,1-Dichloroethene	343548	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	343548	U
67-64-1	Acetone	1374193	750000J
108-05-4	Vinyl Acetate	687096	U
74-88-4	Methyl Iodide	343548	U
75-15-0	Carbon disulfide	687096	U
107-05-1	Allyl Chloride	343548	U
75-05-8	Acetonitrile	687096	U
75-09-2	Methylene chloride	1374193	420000J
107-13-1	Acrylonitrile	687096	U
1634-04-4	Methyl tert butyl ether	687096	U
156-60-5	trans-1,2-Dichloroethene	343548	U
75-34-3	1,1-Dichloroethane	343548	U
107-02-8	Acrolein	687096	U
156-59-2	cis-1,2-Dichloroethene	343548	U
78-93-3	2-Butanone (MEK)	343548	U
594-20-7	2,2-Dichloropropane	343548	U
107-12-0	Propionitrile	343548	U
126-98-7	Methacrylonitrile	343548	U
74-97-5	Bromochloromethane	343548	U
67-66-3	Chloroform	343548	U
71-55-6	1,1,1-Trichloroethane	343548	U
563-58-6	1,1-Dichloropropene	343548	U
56-23-5	Carbon tetrachloride	343548	U
107-06-2	1,2-Dichloroethane	343548	U
71-43-2	Benzene	343548	U
79-01-6	Trichloroethene	343548	U
78-87-5	1,2-Dichloropropane	343548	U
80-62-6	Methyl Methacrylate	343548	U
123-91-1	1,4-Dioxane	343548	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-07

LAB ID: 9912/6102-007

PARENT ORDER NUMBER: 175078

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION <u>LIMIT</u> <u>µg/Kg</u>	<u>RESULTS</u>	
		<u>µg/Kg</u>	(Dry Weight Basis)
95-50-1	1.2-Dichlorobenzene	343548	U
104-51-8	n-Butylbenzene	343548	U
96-12-8	1,2-Dibromo-3-chloropropane	343548	U
120-82-1	1,2,4-Trichlorobenzene	343548	U
87-68-3	Hexachlorobutadiene	687096	U
91-20-3	Naphthalene	687096	710000
87-61-6	1,2,3-Trichlorobenzene	343548	U
110-75-8	2-Chloroethyl vinyl ether	687096	U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
460-00-4	4-Bromofluorobenzene	100
17060-07-0	1,2-Dichloroethane-d4	89
2037-26-5	Toluene-d8	97

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 15:10  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/19/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE One

SAMPLE ID: SS-013-07  
LAB ID: 9912/6102-007  
PARENT ORDER NUMBER: 175077

CAS NUMBER	METHOD DETECTION	QUANT FACTOR :	22903.21
	LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)	
110-86-1	Pyridine	49241.90	U
62-75-9	n-Nitrosodimethylamine	35729.01	U
62-53-3	Aniline	51761.26	U
111-44-4	Bis(2-chloroethyl)ether	20841.92	U
95-57-8	2-Chlorophenol	25422.56	U
108-95-2	Phenol	19238.70	U
541-73-1	1,3-Dichlorobenzene	26567.72	U
106-46-7	1,4-Dichlorobenzene	25651.60	U
95-50-1	1,2-Dichlorobenzene	24277.40	U
100-51-6	Benzyl alcohol	17635.47	U
108-60-1	2,2-oxybis(1-Chloropropane)	31835.46	U
95-48-7	2-Methylphenol	28629.01	U
67-72-1	Hexachloroethane	25193.53	U
621-64-7	N-Nitrosodi-n-propylamine	24277.40	U
106-44-5	4-Methylphenol	30003.21	U
98-95-3	Nitrobenzene	19238.70	U
78-59-1	Isophorone	20383.86	U
88-75-5	2-Nitrophenol	23361.28	U
105-67-9	2,4-Dimethylphenol	58632.22	U
111-91-1	Bis(2-chloroethoxy)methane	19009.67	U
120-83-2	2,4-Dichlorophenol	18551.60	U
120-82-1	1,2,4-Trichlorobenzene	23132.24	U
91-20-3	Naphthalene	22445.15	430000
65-85-0	Benzoic acid	42599.97	U
106-47-8	4-Chloroaniline	15116.12	U
87-68-3	Hexachlorobutadiene	26338.69	U
91-57-6	2-Methylnaphthalene	19467.73	92000
59-50-7	4-Chloro-3-methylphenol	22903.21	U
77-47-4	Hexachlorocyclopentadiene	32064.50	U
88-06-2	2,4,6-Trichlorophenol	34354.82	U
95-95-4	2,4,5-Trichlorophenol	61609.64	U
91-58-7	2-Chloronaphthalene	21529.02	U
88-74-4	2-Nitroaniline	16261.28	U
208-96-8	Acenaphthylene	13970.96	U
131-11-3	Dimethyl phthalate	19467.73	U
606-20-2	2,6-Dinitrotoluene	22216.11	U
83-32-9	Acenaphthene	13970.96	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMOVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Two

SAMPLE ID: SS-013-07

LAB ID: 9912/6102-007

PARENT ORDER NUMBER: 175077

CAS NUMBER	QUANT FACTOR :	0.00	RESULTS
	METHOD DETECTION LIMIT	<u>µg/KG</u>	<u>µg/KG</u>
99-09-2	3-Nitroaniline	24506.44	U
51-28-5	2,4-Dinitrophenol	22216.11	U
132-64-9	Dibenzofuran	23361.28	U
121-14-2	2,4-Dinitrotoluene	18780.63	U
100-02-7	4-Nitrophenol	46493.52	U
86-73-7	Fluorene	16719.34	U
7005-72-3	4-Chlorophenyl phenyl ether	15574.18	U
84-66-2	Diethyl phthalate	18551.60	U
100-01-6	4-Nitroaniline	19238.70	U
534-52-1	4,6-Dinitro-2-methylphenol	37561.27	U
86-30-6	N-Nitrosodiphenylamine	21987.08	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	16261.28	U
101-55-3	4-Bromophenyl phenyl ether	16490.31	U
118-74-1	Hexachlorobenzene	15803.22	U
1912-24-9	Atrazine	68709.63	U
87-86-5	Pentachlorophenol	37332.23	U
85-01-8	Phenanthrene	13283.86	U
120-12-7	Anthracene	17406.44	U
86-74-8	Carbazole	20383.86	U
15972-60-8	Alachlor	68709.63	U
84-74-2	Di-n-butyl phthalate	29316.11	190000
206-44-0	Fluoranthene	14658.06	U
92-87-5	Benzidine	229032.11	U
129-00-0	Pyrene	17864.50	U
85-68-7	Butyl benzyl phthalate	9161.28	30000
56-55-3	Benz(a)anthracene	15803.22	U
218-01-9	Chrysene	20154.83	U
91-94-1	3,3'-Dichlorobenzidine	27712.89	U
117-81-7	Bis(2-ethylhexyl)phthalate	29316.11	1500000
117-84-0	Di-n-octyl phthalate	17406.44	U
205-99-2	Benzo(b)fluoranthene	32522.56	U
207-08-9	Benzo(k)fluoranthene	37103.20	U
50-32-8	Benzo(a)pyrene	14887.09	U
193-39-5	Indeno(1,2,3-cd)pyrene	18551.60	U
53-70-3	Dibenz(a,h)anthracene	12825.80	U
191-24-2	Benzo(g,h,i)perylene	19467.73	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270  
PAGE Three

SAMPLE ID: SS-013-07

LAB ID: 9912/6102-007

PARENT ORDER NUMBER: 175077

QUANT FACTOR : 0.00

### METHOD DETECTION

LIMIT  
ng/KG

RESULTS  
ng/KG

(Dry Weight Basis)

### CAS NUMBER

### SURROGATE RECOVERY RESULTS

	% RECOVERY
321-60-8	0
367-12-4	0
4165-60-0	0
4165-62-2	0
1718-51-0	0
118-79-6	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/06/01 15:10  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-07  
LAB ID: 9912/6102-007  
PARENT ORDER NUMBER: 175077

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		PRACTICAL QUANTITATION	<u>RESULTS</u> <u>µg/KG</u>
		<u>LIMIT</u> <u>µg/KG</u>	
12674-11-2	A-1016	27484	U
1104-28-2	A-1221	27484	U
11141-16-5	A-1232	27484	79600
53469-21-9	A-1242	27484	U
12672-29-6	A-1248	27484	U
11097-69-1	A-1254	27484	U
11096-82-5	A-1260	27484	44700

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	0
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 15:10  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SS-013-08  
LAB ID: 9912006135-001  
DATE COLLECTED: 06/06/01 17:00  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	3.37 B mg/Kg	06/20/01 J.T
TOTAL BARIUM	SW-846 6010A	304 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	27.1 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	462 mg/Kg	
TOTAL LEAD	SW-846 6010A	2383 mg/Kg	
TOTAL MERCURY	SW-846 7471A	2.40 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	16,600 mg/Kg	06/18/01/M.P
PH	SW-846 9045	7.180	06/11/01 A.V
IGNITABILITY (CLOSED CUP)	SW-846 1020	130 °F	06/11/01 A.V

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-08  
LAB ID: 9912/6135-001

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>ug/Kg</u>	RESULTS	
		<u>ug/Kg</u>	(Dry Weight Basis)
(1) 75-71-8	Dichlorodifluoromethane	33099	U
(1) 74-87-3	Chloromethane	66199	U
(1) 75-01-4	Vinyl chloride	33099	U
(1) 74-83-9	Bromomethane	33099	U
(1) 75-00-3	Chloroethane	33099	U
(1) 75-69-04	Trichlorofluoromethane	33099	U
(1) 75-35-4	1,1-Dichloroethene	33099	U
(1) 76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	33099	U
(1) 67-64-1	Acetone	132398	68000J
(1) 108-05-4	Vinyl Acetate	66199	U
(1) 74-88-4	Methyl Iodide	33099	U
(1) 75-15-0	Carbon disulfide	66199	U
(1) 107-05-1	Allyl Chloride	33099	U
(1) 75-05-8	Acetonitrile	66199	U
(1) 75-09-2	Methylene chloride	132398	28000J B
(1) 107-13-1	Acrylonitrile	66199	U
(1) 1634-04-4	Methyl tert butyl ether	66199	U
(1) 156-60-5	trans-1,2-Dichloroethene	33099	U
(1) 75-34-3	1,1-Dichloroethane	33099	U
(1) 107-02-8	Acrolein	66199	U
(1) 156-59-2	cis-1,2-Dichloroethene	33099	58000
(1) 78-93-3	2-Butanone (MEK)	33099	U
(1) 594-20-7	2,2-Dichloropropane	33099	U
(1) 107-12-0	Propionitrile	33099	U
(1) 126-98-7	Methacrylonitrile	33099	U
(1) 74-97-5	Bromoform	33099	U
(1) 67-66-3	Bromochloromethane	33099	32000J
(1) 71-55-6	Chloroform	33099	250000
(1) 563-58-6	1,1,1-Trichloroethane	33099	U
(1) 56-23-5	1,1-Dichloropropene	33099	U
(1) 107-06-2	Carbon tetrachloride	33099	U
(1) 71-43-2	1,2-Dichloroethane	33099	U
(1) 79-01-6	Benzene	33099	42000
(1) 78-87-5	Trichloroethene	33099	810000
(1) 80-62-6	1,2-Dichloropropane	33099	U
(1) 123-91-1	Methyl Methacrylate	33099	U
(1) 74-95-3	1,4-Dioxane	33099	U
(1) 78-83-1	Dibromomethane	33099	U
(1) 75-27-4	Isobutyl Alcohol	66199	U
	Bromodichloromethane	33099	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
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# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
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Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SS-013-08  
LAB ID: 9912/6135-001

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>ug/Kg</u>	<u>RESULTS</u> <u>ug/Kg</u> (Dry Weight Basis)
(1) 10061-02-6	trans-1,3-Dichloropropene	33099	U
(1) 108-10-1	4-Methyl-2-pentanone	66199	49000J
(1) 76-46-9	2-Nitropropane	66199	U
(1) 10061-01-5	cis-1,3-Dichloropropene	33099	U
(1) 97-63-2	Ethyl Methacrylate	33099	U
(1) 79-00-5	1,1,2-Trichloroethane	33099	45000
(1) 127-18-4	Tetrachloroethene	33099	290000
(1) 142-28-9	1,3-Dichloropropane	33099	U
(1) 591-78-6	2-Hexanone	66199	U
(1) 124-48-1	Chlorodibromomethane	33099	U
(1) 106-93-4	1,2-Dibromoethane	33099	U
(1) 108-90-7	Chlorobenzene	33099	86000
(1) 630-20-6	1,1,1,2-Tetrachloroethane	33099	U
(1) 100-41-4	Ethylbenzene	33099	320000
(1) 108-38-3	m&p-Xylene	33099	1200000
(1) 95-47-6	o-Xylene	33099	340000
(1) 100-42-5	Styrene	33099	U
(1) 75-25-2	Bromoform	33099	U
(1) 98-82-8	Isopropylbenzene	33099	14000J
(1) 79-34-5	1,1,2,2-Tetrachloroethane	33099	U
(1) 108-86-1	Bromobenzene	33099	U
(1) 110-57-6	trans-1,4-Dichloro-2-butene	33099	U
(1) 96-18-4	1,2,3-Trichloropropane	33099	U
(1) 103-65-1	n-Propylbenzene	33099	26000J
(1) 95-49-8	2-Chlorotoluene	33099	U
(1) 108-67-8	1,3,5-Trimethylbenzene	33099	45000
(1) 106-43-4	4-Chlorotoluene	33099	U
(1) 98-06-6	t-Butylbenzene	33099	16000J
(1) 95-63-6	1,2,4-Trimethylbenzene	33099	140000
(1) 135-98-8	sec-Butylbenzene	33099	U
(1) 541-73-1	1,3-Dichlorobenzene	33099	U
(1) 99-87-6	p-Isopropyltoluene	33099	U
(1) 106-46-7	1,4-Dichlorobenzene	33099	72000
(1) 95-50-1	1,2-Dichlorobenzene	33099	39000
(1) 104-51-8	n-Butylbenzene	33099	13000J
(1) 96-12-8	1,2-Dibromo-3-chloropropane	33099	U
(1) 120-82-1	1,2,4-Trichlorobenzene	33099	U
87-68-3	Hexachlorobutadiene	66199	U
91-20-3	Naphthalene	66199	30000J B
87-61-6	1,2,3-Trichlorobenzene	33099	U

ROY F. WESTON, INC.  
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OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-08  
LAB ID: 9912/6135-001

	<u>CAS NUMBER</u>	PRACTICAL QUANTITATION LIMIT <u>µg/KG</u>	<u>RESULTS</u>	
			<u>µg/KG</u>	(Dry Weight Basis)
— (1)	110-75-8	2-Chloroethyl vinyl ether	66199	U
(2)	108-88-3	Toluene	165497	1900000

SURROGATE RECOVERY RESULTS

	<u>% RECOVERY</u>	
(1)	460-00-4	100
(1)	17060-07-0	92
(1)	2037-26-5	101
— (2)	460-00-4	94
(2)	17060-07-0	98
(2)	2037-26-5	98

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 17:00  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/20/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMOVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE One

SAMPLE ID: SS-013-08

LAB ID: 9912/6135-001

PARENT ORDER NUMBER: 175205

QUANT FACTOR : 13239.77

CAS NUMBER	METHOD DETECTION	LIMIT	RESULTS
			µg/KG
110-86-1	Pyridine	28465.51	U
62-75-9	n-Nitrosodimethylamine	20654.04	U
62-53-3	Aniline	29921.89	U
111-44-4	Bis(2-chloroethyl)ether	12048.19	U
95-57-8	2-Chlorophenol	14696.15	U
108-95-2	Phenol	11121.41	U
541-73-1	1,3-Dichlorobenzene	15358.14	U
106-46-7	1,4-Dichlorobenzene	14828.54	18000
95-50-1	1,2-Dichlorobenzene	14034.16	U
100-51-6	Benzyl alcohol	10194.62	U
108-60-1	2,2-oxybis(1-Chloropropane)	18403.28	U
95-48-7	2-Methylphenol	16549.72	U
67-72-1	Hexachloroethane	14563.75	U
621-64-7	N-Nitrosodi-n-propylamine	14034.16	U
106-44-5	4-Methylphenol	17344.10	U
98-95-3	Nitrobenzene	11121.41	U
78-59-1	Isophorone	11783.40	U
88-75-5	2-Nitrophenol	13504.57	U
105-67-9	2,4-Dimethylphenol	33893.82	U
111-91-1	Bis(2-chloroethoxy)methane	10989.01	U
120-83-2	2,4-Dichlorophenol	10724.22	U
120-82-1	1,2,4-Trichlorobenzene	13372.17	U
91-20-3	Naphthalene	12974.98	20000
65-85-0	Benzoic acid	24625.98	U
106-47-8	4-Chloroaniline	8738.25	U
87-68-3	Hexachlorobutadiene	15225.74	U
91-57-6	2-Methylnaphthalene	11253.81	14000
59-50-7	4-Chloro-3-methylphenol	13239.77	U
77-47-4	Hexachlorocyclopentadiene	18535.68	U
88-06-2	2,4,6-Trichlorophenol	19859.66	U
95-95-4	2,4,5-Trichlorophenol	35614.99	U
91-58-7	2-Chloronaphthalene	12445.39	U
88-74-4	2-Nitroaniline	9400.24	U
208-96-8	Acenaphthylene	8076.26	U
131-11-3	Dimethyl phthalate	11253.81	U
606-20-2	2,6-Dinitrotoluene	12842.58	U
83-32-9	Acenaphthene	8076.26	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Two

SAMPLE ID: SS-013-08

LAB ID: 9912/6135-001

PARENT ORDER NUMBER: 175205

CAS NUMBER	QUANT FACTOR :	0.00	RESULTS
	METHOD DETECTION LIMIT	<u>ug/KG</u>	<u>ug/KG</u>
99-09-2	3-Nitroaniline	14166.56	U
51-28-5	2,4-Dinitrophenol	12842.58	U
132-64-9	Dibenzofuran	13504.57	U
121-14-2	2,4-Dinitrotoluene	10856.61	U
100-02-7	4-Nitrophenol	26876.74	U
86-73-7	Fluorene	9665.03	38000
7005-72-3	4-Chlorophenyl phenyl ether	9003.05	U
84-66-2	Diethyl phthalate	10724.22	U
100-01-6	4-Nitroaniline	11121.41	U
534-52-1	4,6-Dinitro-2-methylphenol	21713.23	U
86-30-6	N-Nitrosodiphenylamine	12710.18	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	9400.24	U
101-55-3	4-Bromophenyl phenyl ether	9532.64	U
118-74-1	Hexachlorobenzene	9135.44	U
1912-24-9	Atrazine	39719.32	U
87-86-5	Pentachlorophenol	21580.83	U
85-01-8	Phenanthrene	7679.07	95000
120-12-7	Anthracene	10062.23	U
86-74-8	Carbazole	11783.40	U
15972-60-8	Alachlor	39719.32	U
84-74-2	Di-n-butyl phthalate	16946.91	290000
206-44-0	Fluoranthene	8473.45	12000
92-87-5	Benzidine	132397.72	U
129-00-0	Pyrene	10327.02	40000
85-68-7	Butyl benzyl phthalate	5295.91	U
56-55-3	Benz(a)anthracene	9135.44	U
218-01-9	Chrysene	11651.00	17000
91-94-1	3,3'-Dichlorobenzidine	16020.12	U
117-81-7	Bis(2-ethylhexyl)phthalate	16946.91	160000
117-84-0	Di-n-octyl phthalate	10062.23	U
205-99-2	Benzo(b)fluoranthene	18800.48	U
207-08-9	Benzo(k)fluoranthene	21448.43	U
50-32-8	Benzo(a)pyrene	8605.85	U
193-39-5	Ieno(1,2,3-cd)pyrene	10724.22	U
53-70-3	Dibenz(a,h)anthracene	7414.27	U
191-24-2	Benzo(g,h,i)perylene	11253.81	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SS-013-08

LAB ID: 9912/6135-001

PARENT ORDER NUMBER: 175205

QUANT FACTOR : 0.00

### METHOD DETECTION

LIMIT  
µg/KG

RESULTS  
µg/KG

(Dry Weight Basis)

### CAS NUMBER

### SURROGATE RECOVERY RESULTS

### % RECOVERY

321-60-8	2-Fluorobiphenyl	0
367-12-4	2-Fluorophenol	0
4165-60-0	Nitrobenzene-d5	0
4165-62-2	Phenol-d5	0
1718-51-0	p-Terphenyl-d14	0
118-79-6	2,4,6-Tribromophenol	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/06/01 17:00

DATE RECEIVED: 06/07/01

DATE ANALYZED: 06/15/01

ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-08  
LAB ID: 9912/6135-001  
PARENT ORDER NUMBER: 175205

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u>	<u>RESULTS</u>
		<u>µg/KG</u>	<u>µg/KG</u> (Dry Weight Basis)
12674-11-2	A-1016	13240	40300
1104-28-2	A-1221	13240	U
11141-16-5	A-1232	13240	U
53469-21-9	A-1242	13240	U
12672-29-6	A-1248	13240	U
11097-69-1	A-1254	13240	U
11096-82-5	A-1260	13240	33400

**SURROGATE RECOVERY RESULTS**

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	0
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/06/01 17:00  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PO: ---

PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive

St. Louis, MO 63146

(314) 432-0550

Fax (314) 432-4977

## ANALYSIS RESULTS

SAMPLE ID: SS-013-09

LAB ID: 9912006135-015

DATE COLLECTED: 06/07/01 09:10

DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<3.00 mg/Kg	06/20/01 J.T
TOTAL BARIUM	SW-846 6010A	137 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.38 B mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	73.5 mg/Kg	
TOTAL LEAD	SW-846 6010A	399 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.300 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	4,570 mg/Kg	06/18/01 M.P
PH	SW-846 9045	7.380	06/11/01 A.V
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/11/01 A.V

<sup>a</sup> = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-09

LAB ID: 9912/6135-015

PARENT ORDER NUMBER: 175244

QUANT FACTOR :

157.43

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>ug/Kg</u>	RESULTS <u>ug/Kg</u> (Dry Weight Basis)	
		U	U
75-71-8	Dichlorodifluoromethane	787	U
74-87-3	Chloromethane	1574	U
75-01-4	Vinyl chloride	787	U
74-83-9	Bromomethane	787	U
75-00-3	Chloroethane	787	U
75-69-04	Trichlorofluoromethane	787	U
75-35-4	1,1-Dichloroethene	787	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	787	U
67-64-1	Acetone	3149	4300
108-05-4	Vinyl Acetate	1574	U
74-88-4	Methyl Iodide	787	U
75-15-0	Carbon disulfide	1574	U
107-05-1	Allyl Chloride	787	U
75-05-8	Acetonitrile	1574	U
75-09-2	Methylene chloride	3149	900J B
107-13-1	Acrylonitrile	1574	U
1634-04-4	Methyl tert butyl ether	1574	U
156-60-5	trans-1,2-Dichloroethene	787	U
75-34-3	1,1-Dichloroethane	787	U
107-02-8	Acrolein	1574	U
156-59-2	cis-1,2-Dichloroethene	787	U
78-93-3	2-Butanone (MEK)	787	430J
594-20-7	2,2-Dichloropropane	787	U
107-12-0	Propionitrile	787	U
126-98-7	Methacrylonitrile	787	U
74-97-5	Bromoform	787	U
67-66-3	Chloroform	787	U
71-55-6	1,1,1-Trichloroethane	787	U
563-58-6	1,1-Dichloropropene	787	U
56-23-5	Carbon tetrachloride	787	U
107-06-2	1,2-Dichloroethane	787	U
71-43-2	Benzene	787	U
79-01-6	Trichloroethene	787	U
78-87-5	1,2-Dichloropropane	787	U
80-62-6	Methyl Methacrylate	787	U
123-91-1	1,4-Dioxane	787	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SS-013-09  
LAB ID: 9912/6135-015  
PARENT ORDER NUMBER: 175244

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION  
LIMIT  
µg/Kg

RESULTS  
µg/Kg  
(Dry Weight Basis)

CAS NUMBER

74-95-3	Dibromomethane	787	U
78-83-1	Isobutyl Alcohol	1574	U
75-27-4	Bromodichloromethane	787	U
10061-02-6	trans-1,3-Dichloropropene	787	U
108-10-1	4-Methyl-2-pentanone	1574	U
76-46-9	2-Nitropropane	1574	U
108-88-3	Toluene	787	520J
10061-01-5	cis-1,3-Dichloropropene	787	U
97-63-2	Ethyl Methacrylate	787	U
79-00-5	1,1,2-Trichloroethane	787	U
127-18-4	Tetrachloroethene	787	U
142-28-9	1,3-Dichloropropane	787	U
591-78-6	2-Hexanone	1574	U
124-48-1	Chlorodibromomethane	787	U
106-93-4	1,2-Dibromoethane	787	U
108-90-7	Chlorobenzene	787	U
630-20-6	1,1,1,2-Tetrachloroethane	787	U
100-41-4	Ethylbenzene	787	740J
108-38-3	m&p-Xylene	787	3500
95-47-6	o-Xylene	787	1700
100-42-5	Styrene	787	U
75-25-2	Bromoform	787	U
98-82-8	Isopropylbenzene	787	1500
79-34-5	1,1,2,2-Tetrachloroethane	787	U
108-86-1	Bromobenzene	787	U
110-57-6	trans-1,4-Dichloro-2-butene	787	U
96-18-4	1,2,3-Trichloropropane	787	U
103-65-1	n-Propylbenzene	787	950
95-49-8	2-Chlorotoluene	787	U
108-67-8	1,3,5-Trimethylbenzene	787	1800
106-43-4	4-Chlorotoluene	787	U
98-06-6	t-Butylbenzene	787	8200
95-63-6	1,2,4-Trimethylbenzene	787	4500
135-98-8	sec-Butylbenzene	787	390J
541-73-1	1,3-Dichlorobenzene	787	U
99-87-6	p-Isopropyltoluene	787	U
106-46-7	1,4-Dichlorobenzene	787	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-09  
LAB ID: 9912/6135-015  
PARENT ORDER NUMBER: 175244

QUANT FACTOR : 0.00

CAS NUMBER	PRACTICAL QUANTITATION LIMIT <u>ug/Kg</u>	RESULTS	
		<u>ug/Kg</u>	(Dry Weight Basis)
95-50-1	1,2-Dichlorobenzene	787	U
104-51-8	n-Butylbenzene	787	840
96-12-8	1,2-Dibromo-3-chloropropane	787	U
120-82-1	1,2,4-Trichlorobenzene	787	U
87-68-3	Hexachlorobutadiene	1574	U
91-20-3	Naphthalene	1574	2500 B
87-61-6	1,2,3-Trichlorobenzene	787	U
110-75-8	2-Chloroethyl vinyl ether	1574	U

SURROGATE RECOVERY RESULTS

	% RECOVERY
460-00-4	102
17060-07-0	97
2037-26-5	98

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 09:10  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/21/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
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## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

### METHOD 8270

### PAGE One

SAMPLE ID: SS-013-09

LAB ID: 9912/6135-015

PARENT ORDER NUMBER: 175245

CAS NUMBER	QUANT FACTOR :	6297.23	RESULTS
	METHOD DETECTION LIMIT	<u>µg/KG</u>	<u>µg/KG</u>
110-86-1	Pyridine	13539.04	U
62-75-9	n-Nitrosodimethylamine	9823.68	U
62-53-3	Aniline	14231.74	U
111-44-4	Bis(2-chloroethyl)ether	5730.48	U
95-57-8	2-Chlorophenol	6989.92	U
108-95-2	Phenol	5289.67	U
541-73-1	1,3-Dichlorobenzene	7304.79	U
106-46-7	1,4-Dichlorobenzene	7052.90	U
95-50-1	1,2-Dichlorobenzene	6675.06	U
100-51-6	Benzyl alcohol	4848.87	U
108-60-1	2,2-oxybis(1-Chloropropane)	8753.15	U
95-48-7	2-Methylphenol	7871.54	U
67-72-1	Hexachloroethane	6926.95	U
621-64-7	N-Nitrosodi-n-propylamine	6675.06	U
106-44-5	4-Methylphenol	8249.37	U
98-95-3	Nitrobenzene	5289.67	U
78-59-1	Isophorone	5604.53	U
88-75-5	2-Nitrophenol	6423.17	U
105-67-9	2,4-Dimethylphenol	16120.91	U
111-91-1	Bis(2-chloroethoxy)methane	5226.70	U
120-83-2	2,4-Dichlorophenol	5100.76	U
120-82-1	1,2,4-Trichlorobenzene	6360.20	U
91-20-3	Naphthalene	6171.28	8200
65-85-0	Benzoic acid	11712.85	U
106-47-8	4-Chloroaniline	4156.17	U
87-68-3	Hexachlorobutadiene	7241.81	U
91-57-6	2-Methylnaphthalene	5352.64	39000
59-50-7	4-Chloro-3-methylphenol	6297.23	U
77-47-4	Hexachlorocyclopentadiene	8816.12	U
88-06-2	2,4,6-Trichlorophenol	9445.84	U
95-95-4	2,4,5-Trichlorophenol	16939.55	U
91-58-7	2-Chloronaphthalene	5919.40	U
88-74-4	2-Nitroaniline	4471.03	U
208-96-8	Acenaphthylene	3841.31	U
131-11-3	Dimethyl phthalate	5352.64	U
606-20-2	2,6-Dinitrotoluene	6108.31	U
83-32-9	Acenaphthene	3841.31	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Two

SAMPLE ID: SS-013-09

LAB ID: 9912/6135-015

PARENT ORDER NUMBER: 175245

CAS NUMBER	QUANT FACTOR :	0.00	METHOD DETECTION LIMIT	RESULTS
			µg/KG	µg/KG
99-09-2	3-Nitroaniline		6738.04	U
51-28-5	2,4-Dinitrophenol		6108.31	U
132-64-9	Dibenzofuran		6423.17	U
121-14-2	2,4-Dinitrotoluene		5163.73	U
100-02-7	4-Nitrophenol		12783.38	U
86-73-7	Fluorene		4596.98	19000
7005-72-3	4-Chlorophenyl phenyl ether		4282.12	U
84-66-2	Diethyl phthalate		5100.76	U
100-01-6	4-Nitroaniline		5289.67	U
534-52-1	4,6-Dinitro-2-methylphenol		10327.46	U
86-30-6	N-Nitrosodiphenylamine		6045.34	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)		4471.03	U
101-55-3	4-Bromophenyl phenyl ether		4534.01	U
118-74-1	Hexachlorobenzene		4345.09	U
1912-24-9	Atrazine		18891.69	U
87-86-5	Pentachlorophenol		10264.48	U
85-01-8	Phenanthrene		3652.39	6600
120-12-7	Anthracene		4785.89	U
86-74-8	Carbazole		5604.53	U
15972-60-8	Alachlor		18891.69	U
84-74-2	Di-n-butyl phthalate		8060.45	U
206-44-0	Fluoranthene		4030.23	U
92-87-5	Benzidine		62972.29	U
129-00-0	Pyrene		4911.84	U
85-68-7	Butyl benzyl phthalate		2518.89	U
56-55-3	Benz(a)anthracene		4345.09	U
218-01-9	Chrysene		5541.56	U
91-94-1	3,3'-Dichlorobenzidine		7619.65	U
117-81-7	Bis(2-ethylhexyl)phthalate		8060.45	86000
117-84-0	Di-n-octyl phthalate		4785.89	U
205-99-2	Benzo(b)fluoranthene		8942.07	U
207-08-9	Benzo(k)fluoranthene		10201.51	U
50-32-8	Benzo(a)pyrene		4093.20	U
193-39-5	Indeno(1,2,3-cd)pyrene		5100.76	U
53-70-3	Dibenz(a,h)anthracene		3526.45	U
191-24-2	Benzo(g,h,i)perylene		5352.64	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA  
INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SS-013-09  
LAB ID: 9912/6135-015  
PARENT ORDER NUMBER: 175245

<u>CAS NUMBER</u>	QUANT. FACTOR :	METHOD DETECTION LIMIT	<u>RESULTS</u> <u>µg/KG</u>	(Dry Weight Basis)
	0.00			

## SURROGATE RECOVERY RESULTS

		% RECOVERY
321-60-8	2-Fluorobiphenyl	0
367-12-4	2-Fluorophenol	0
4165-60-0	Nitrobenzene-d5	0
4165-62-2	Phenol-d5	0
1718-51-0	p-Terphenyl-d14	0
118-79-6	2,4,6-Tribromophenol	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/07/01 09:10  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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St. Louis, MO 63146  
(314) 432-0550  
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PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-09

LAB ID: 9912/6135-015

PARENT ORDER NUMBER: 175245

QUANT FACTOR : 0.00

## PRACTICAL QUANTITATION

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u> (Dry Weight Basis)
12674-11-2	A-1016	252	3780
1104-28-2	A-1221	252	U
11141-16-5	A-1232	252	U
53469-21-9	A-1242	252	U
12672-29-6	A-1248	252	U
11097-69-1	A-1254	252	U
11096-82-5	A-1260	252	846

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	81

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 09:10  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PO: ---  
PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## ANALYSIS RESULTS

SAMPLE ID: SS-013-10  
LAB ID: 9912006135-014  
DATE COLLECTED: 06/07/01 09:40  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<3.00 mg/Kg	06/20/01 J.T
TOTAL BARIUM	SW-846 6010A	110 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	5.64 B mg/Kg	
TOTAL LEAD	SW-846 6010A	19.5 B mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.400 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	29,700 mg/Kg	06/18/01 M.P
PH	SW-846 9045	6.220	06/11/01 A.V
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	06/11/01 A.V

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-10  
LAB ID: 9912/6135-014

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>ng/Kg</u>	<u>RESULTS</u>
			<u>ng/Kg</u> (Dry Weight Basis)
(1) 75-71-8	Dichlorodifluoromethane	3081	U
(1) 74-87-3	Chloromethane	6162	U
(1) 75-01-4	Vinyl chloride	3081	U
(1) 74-83-9	Bromomethane	3081	U
(1) 75-00-3	Chloroethane	3081	U
(1) 75-69-04	Trichlorofluoromethane	3081	U
(1) 75-35-4	1,1-Dichloroethene	3081	U
(1) 76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3081	U
(1) 67-64-1	Acetone	12324	20000
(1) 108-05-4	Vinyl Acetate	6162	U
(1) 74-88-4	Methyl Iodide	3081	U
(1) 75-15-0	Carbon disulfide	6162	U
(1) 107-05-1	Allyl Chloride	3081	U
(1) 75-05-8	Acetonitrile	6162	U
(1) 75-09-2	Methylene chloride	12324	4000J B
(1) 107-13-1	Acrylonitrile	6162	U
(1) 1634-04-4	Methyl tert butyl ether	6162	U
(1) 156-60-5	trans-1,2-Dichloroethene	3081	U
(1) 75-34-3	1,1-Dichloroethane	3081	U
(1) 107-02-8	Acrolein	6162	U
(1) 156-59-2	cis-1,2-Dichloroethene	3081	U
(1) 78-93-3	2-Butanone (MEK)	3081	U
(1) 594-20-7	2,2-Dichloropropane	3081	U
(1) 107-12-0	Propionitrile	3081	U
(1) 126-98-7	Methacrylonitrile	3081	U
(1) 74-97-5	Bromochloromethane	3081	U
(1) 67-66-3	Chloroform	3081	U
(1) 71-55-6	1,1,1-Trichloroethane	3081	U
(1) 563-58-6	1,1-Dichloropropene	3081	U
(1) 56-23-5	Carbon tetrachloride	3081	U
(1) 107-06-2	1,2-Dichloroethane	3081	U
(1) 71-43-2	Benzene	3081	1900J
(1) 79-01-6	Trichloroethene	3081	U
(1) 78-87-5	1,2-Dichloropropane	3081	U
(1) 80-62-6	Methyl Methacrylate	3081	U
(1) 123-91-1	1,4-Dioxane	3081	U
(1) 74-95-3	Dibromomethane	3081	U
(1) 78-83-1	Isobutyl Alcohol	6162	U
(1) 75-27-4	Bromodichloromethane	3081	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

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PROJECT NO: 0105-013  
PO: ---

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SS-013-10  
LAB ID: 9912/6135-014

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u> <u>ng/Kg</u>	<u>RESULTS</u>
			<u>ng/Kg</u> (Dry Weight Basis)
(1) 10061-02-6	trans-1,3-Dichloropropene	3081	U
(1) 108-10-1	4-Methyl-2-pentanone	6162	U
(1) 76-46-9	2-Nitropropane	6162	U
(1) 108-88-3	Toluene	3081	U
(1) 10061-01-5	cis-1,3-Dichloropropene	3081	U
(1) 97-63-2	Ethyl Methacrylate	3081	U
(1) 79-00-5	1,1,2-Trichloroethane	3081	U
(1) 127-18-4	Tetrachloroethene	3081	U
(1) 142-28-9	1,3-Dichloropropane	3081	U
(1) 591-78-6	2-Hexanone	6162	U
(1) 124-48-1	Chlorodibromomethane	3081	U
(1) 106-93-4	1,2-Dibromoethane	3081	U
(1) 108-90-7	Chlorobenzene	3081	U
(1) 630-20-6	1,1,1,2-Tetrachloroethane	3081	U
(1) 100-41-4	Ethylbenzene	3081	2800J
(1) 108-38-3	m&p-Xylene	3081	6500
(1) 95-47-6	o-Xylene	3081	1700J
(1) 100-42-5	Styrene	3081	U
(1) 75-25-2	Bromoform	3081	U
(1) 98-82-8	Isopropylbenzene	3081	4100
(1) 79-34-5	1,1,2,2-Tetrachloroethane	3081	U
(1) 108-86-1	Bromobenzene	3081	U
(1) 110-57-6	trans-1,4-Dichloro-2-butene	3081	U
(1) 96-18-4	1,2,3-Trichloropropane	3081	U
(1) 103-65-1	n-Propylbenzene	3081	2000J
(1) 95-49-8	2-Chlorotoluene	3081	U
(1) 108-67-8	1,3,5-Trimethylbenzene	3081	10000
(1) 106-43-4	4-Chlorotoluene	3081	U
(1) 95-63-6	1,2,4-Trimethylbenzene	3081	17000
(1) 135-98-8	sec-Butylbenzene	3081	2400J
(1) 541-73-1	1,3-Dichlorobenzene	3081	U
(1) 99-87-6	p-Isopropyltoluene	3081	2100J
(1) 106-46-7	1,4-Dichlorobenzene	3081	U
(1) 95-50-1	1,2-Dichlorobenzene	3081	U
(1) 104-51-8	n-Butylbenzene	3081	6200
(1) 96-12-8	1,2-Dibromo-3-chloropropane	3081	U
(1) 120-82-1	1,2,4-Trichlorobenzene	3081	U
(1) 87-68-3	Hexachlorobutadiene	6162	U
(1) 91-20-3	Naphthalene	6162	16000 B
(1) 87-61-6	1,2,3-Trichlorobenzene	3081	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864  
ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-10  
LAB ID: 9912/6135-014

CAS NUMBER	PRACTICAL QUANTITATION		RESULTS <u>µg/KG</u> (Dry Weight Basis)
	LIMIT	<u>µg/KG</u>	
(1) 110-75-8	2-Chloroethyl vinyl ether	6162	U
(2) 98-06-6	t-Butylbenzene	30811	160000

SURROGATE RECOVERY RESULTS

		% RECOVERY
(1)	460-00-4	0
(1)	17060-07-0	0
(1)	2037-26-5	0
(2)	460-00-4	102
(2)	17060-07-0	99
(2)	2037-26-5	98

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 09:40  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/21/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

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## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE One

SAMPLE ID: SS-013-10

LAB ID: 9912/6135-014

PARENT ORDER NUMBER: 175242

QUANT FACTOR :

4929.75

CAS NUMBER	METHOD DETECTION LIMIT <u>µg/KG</u>	RESULTS <u>µg/KG</u> (Dry Weight Basis)
		U
110-86-1	Pyridine	10598.96
62-75-9	n-Nitrosodimethylamine	7690.41
62-53-3	Aniline	11141.24
111-44-4	Bis(2-chloroethyl)ether	4486.07
95-57-8	2-Chlorophenol	5472.02
108-95-2	Phenol	4140.99
541-73-1	1,3-Dichlorobenzene	5718.51
106-46-7	1,4-Dichlorobenzene	5521.32
95-50-1	1,2-Dichlorobenzene	5225.54
100-51-6	Benzyl alcohol	3795.91
108-60-1	2,2-oxybis(1-Chloropropane)	6852.35
95-48-7	2-Methylphenol	6162.19
67-72-1	Hexachloroethane	5422.73
621-64-7	N-Nitrosodi-n-propylamine	5225.54
106-44-5	4-Methylphenol	6457.97
98-95-3	Nitrobenzene	4140.99
78-59-1	Isophorone	4387.48
88-75-5	2-Nitrophenol	5028.35
105-67-9	2,4-Dimethylphenol	12620.16
111-91-1	Bis(2-chloroethoxy)methane	4091.69
120-83-2	2,4-Dichlorophenol	3993.10
120-82-1	1,2,4-Trichlorobenzene	4979.05
91-20-3	Naphthalene	4831.16
65-85-0	Benzoic acid	9169.34
106-47-8	4-Chloroaniline	3253.64
87-68-3	Hexachlorobutadiene	5669.21
91-57-6	2-Methylnaphthalene	4190.29
59-50-7	4-Chloro-3-methylphenol	4929.75
77-47-4	Hexachlorocyclopentadiene	6901.65
88-06-2	2,4,6-Trichlorophenol	7394.63
95-95-4	2,4,5-Trichlorophenol	13261.03
91-58-7	2-Chloronaphthalene	4633.97
88-74-4	2-Nitroaniline	3500.12
208-96-8	Acenaphthylene	3007.15
131-11-3	Dimethyl phthalate	4190.29
606-20-2	2,6-Dinitrotoluene	4781.86
83-32-9	Acenaphthene	3007.15
		32000

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

## SEMOVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

### METHOD 8270

PAGE Two

SAMPLE ID: SS-013-10

LAB ID: 9912/6135-014

PARENT ORDER NUMBER: 175242

CAS NUMBER	QUANT. FACTOR :	0.00	METHOD DETECTION LIMIT	RESULTS
			µg/KG	µg/KG
99-09-2	3-Nitroaniline		5274.83	U
51-28-5	2,4-Dinitrophenol		4781.86	U
132-64-9	Dibenzofuran		5028.35	U
121-14-2	2,4-Dinitrotoluene		4042.40	U
100-02-7	4-Nitrophenol		10007.39	U
86-73-7	Fluorene		3598.72	27000
7005-72-3	4-Chlorophenyl phenyl ether		3352.23	U
84-66-2	Diethyl phthalate		3993.10	U
100-01-6	4-Nitroaniline		4140.99	U
534-52-1	4,6-Dinitro-2-methylphenol		8084.79	U
86-30-6	N-Nitrosodiphenylamine		4732.56	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)		3500.12	U
101-55-3	4-Bromophenyl phenyl ether		3549.42	U
118-74-1	Hexachlorobenzene		3401.53	U
1912-24-9	Atrazine		14789.25	U
87-86-5	Pentachlorophenol		8035.49	U
85-01-8	Phenanthrene		2859.26	11000
120-12-7	Anthracene		3746.61	U
86-74-8	Carbazole		4387.48	U
15972-60-8	Alachlor		14789.25	U
84-74-2	Di-n-butyl phthalate		6310.08	U
206-44-0	Fluoranthene		3155.04	U
92-87-5	Benzidine		49297.51	U
129-00-0	Pyrene		3845.21	4200
85-68-7	Butyl benzyl phthalate		1971.90	U
56-55-3	Benz(a)anthracene		3401.53	U
218-01-9	Chrysene		4338.18	U
91-94-1	3,3'-Dichlorobenzidine		5965.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		6310.08	17000
117-84-0	Di-n-octyl phthalate		3746.61	U
205-99-2	Benzo(b)fluoranthene		7000.25	U
207-08-9	Benzo(k)fluoranthene		7986.20	U
50-32-8	Benzo(a)pyrene		3204.34	U
193-39-5	Ieno(1,2,3-cd)pyrene		3993.10	U
53-70-3	Dibenz(a,h)anthracene		2760.66	U
191-24-2	Benzo(g,h,i)perylene		4190.29	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SS-013-10

LAB ID: 9912/6135-014

PARENT ORDER NUMBER: 175242

QUANT FACTOR :	0.00	
<u>CAS NUMBER</u>	<u>METHOD DETECTION LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u> (Dry Weight Basis)

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
321-60-8	2-Fluorobiphenyl	0
367-12-4	2-Fluorophenol	0
4165-60-0	Nitrobenzene-d5	0
4165-62-2	Phenol-d5	0
1718-51-0	p-Terphenyl-d14	0
118-79-6	2,4,6-Tribromophenol	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/07/01 09:40  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-10

LAB ID: 9912/6135-014

PARENT ORDER NUMBER: 175242

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>		<u>PRACTICAL QUANTITATION LIMIT</u>	<u>RESULTS</u>
		<u>ug/KG</u>	<u>ug/KG</u>
12674-11-2	A-1016	1232	2620
1104-28-2	A-1221	1232	U
11141-16-5	A-1232	1232	U
53469-21-9	A-1242	1232	U
12672-29-6	A-1248	1232	U
11097-69-1	A-1254	1232	U
11096-82-5	A-1260	1232	5100

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	133
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	70

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 09:40  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PO: ---  
PROJECT NO: 0105-013

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
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## ANALYSIS RESULTS

SAMPLE ID: SS-013-11  
LAB ID: 9912006135-010  
DATE COLLECTED: 06/07/01 11:30  
DATE RECEIVED: 06/07/01

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u> (Dry Weight Basis)	<u>ANALYST</u>
TOTAL ARSENIC	SW-846 6010A	<3.00 mg/Kg	06/20/01 J.T
TOTAL BARIUM	SW-846 6010A	204 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.400 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	10.2 mg/Kg	
TOTAL LEAD	SW-846 6010A	15.2 B mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.300 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<4.70 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.600 mg/Kg	
TOTAL PETROLEUM HYDROCARBONS	EPA 418.1	15,300 mg/Kg	06/18/01 M.P
PH	SW-846 9045	7.770	06/11/01 A.V
IGNITABILITY (CLOSED CUP)	SW-846 1020	125 °F	06/11/01 A.V

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE One

SAMPLE ID: SS-013-11  
LAB ID: 9912/6135-010  
PARENT ORDER NUMBER: 175235

QUANT FACTOR : 33222.59

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION <u>LIMIT</u> <u>µg/Kg</u>	RESULTS <u>µg/Kg</u> (Dry Weight Basis)
75-71-8	Dichlorodifluoromethane	U
74-87-3	Chloromethane	U
75-01-4	Vinyl chloride	U
74-83-9	Bromomethane	U
75-00-3	Chloroethane	U
75-69-04	Trichlorodifluoromethane	U
75-35-4	1,1-Dichloroethene	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	U
67-64-1	Acetone	260000J
108-05-4	Vinyl Acetate	U
74-88-4	Methyl Iodide	U
75-15-0	Carbon disulfide	U
107-05-1	Allyl Chloride	U
75-05-8	Acetonitrile	U
75-09-2	Methylene chloride	370000J B
107-13-1	Acrylonitrile	U
1634-04-4	Methyl tert butyl ether	U
156-60-5	trans-1,2-Dichloroethene	U
75-34-3	1,1-Dichloroethane	U
107-02-8	Acrolein	U
156-59-2	cis-1,2-Dichloroethene	U
78-93-3	2-Butanone (MEK)	U
594-20-7	2,2-Dichloropropane	U
107-12-0	Propionitrile	U
126-98-7	Methacrylonitrile	U
74-97-5	Bromochloromethane	U
67-66-3	Chloroform	U
71-55-6	1,1,1-Trichloroethane	U
563-58-6	1,1-Dichloropropene	U
56-23-5	Carbon tetrachloride	U
107-06-2	1,2-Dichloroethane	U
71-43-2	Benzene	U
79-01-6	Trichloroethene	U
78-87-5	1,2-Dichloropropane	U
80-62-6	Methyl Methacrylate	U
123-91-1	1,4-Dioxane	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

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INVOICE: 54383

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PO: ---

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11401 Moog Drive  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Two

SAMPLE ID: SS-013-11

LAB ID: 9912/6135-010

PARENT ORDER NUMBER: 175235

QUANT FACTOR : 0.00

PRACTICAL QUANTITATION  
LIMIT  
ng/Kg

RESULTS  
ng/Kg  
(Dry Weight Basis)

CAS NUMBER

74-95-3	Dibromomethane	166113	U
78-83-1	Isobutyl Alcohol	332226	U
75-27-4	Bromodichloromethane	166113	U
10061-02-6	trans-1,3-Dichloropropene	166113	U
108-10-1	4-Methyl-2-pentanone	332226	U
76-46-9	2-Nitropropane	332226	U
108-88-3	Toluene	166113	1700000
10061-01-5	cis-1,3-Dichloropropene	166113	U
97-63-2	Ethyl Methacrylate	166113	U
79-00-5	1,1,2-Trichloroethane	166113	U
127-18-4	Tetrachloroethene	166113	U
142-28-9	1,3-Dichloropropane	166113	U
591-78-6	2-Hexanone	332226	U
124-48-1	Chlorodibromomethane	166113	U
106-93-4	1,2-Dibromoethane	166113	U
108-90-7	Chlorobenzene	166113	U
630-20-6	1,1,1,2-Tetrachloroethane	166113	U
100-41-4	Ethylbenzene	166113	U
108-38-3	m&p-Xylene	166113	U
95-47-6	o-Xylene	166113	U
100-42-5	Styrene	166113	U
75-25-2	Bromoform	166113	U
98-82-8	Isopropylbenzene	166113	U
79-34-5	1,1,2,2-Tetrachloroethane	166113	U
108-86-1	Bromobenzene	166113	U
110-57-6	trans-1,4-Dichloro-2-butene	166113	U
96-18-4	1,2,3-Trichloropropane	166113	U
103-65-1	n-Propylbenzene	166113	U
95-49-8	2-Chlorotoluene	166113	U
108-67-8	1,3,5-Trimethylbenzene	166113	U
106-43-4	4-Chlorotoluene	166113	U
98-06-6	t-Butylbenzene	166113	210000
95-63-6	1,2,4-Trimethylbenzene	166113	U
135-98-8	sec-Butylbenzene	166113	U
541-73-1	1,3-Dichlorobenzene	166113	U
99-87-6	p-Isopropyltoluene	166113	U
106-46-7	1,4-Dichlorobenzene	166113	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
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VOLATILE ORGANIC COMPOUNDS CAPILLARY COL  
METHOD 8260IX  
PAGE Three

SAMPLE ID: SS-013-11  
LAB ID: 9912/6135-010  
PARENT ORDER NUMBER: 175235

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	PRACTICAL QUANTITATION <u>LIMIT</u> <u>ng/Kg</u>	<u>RESULTS</u>	
		<u>ng/Kg</u>	(Dry Weight Basis)
95-50-1	1,2-Dichlorobenzene	166113	U
104-51-8	n-Butylbenzene	166113	U
96-12-8	1,2-Dibromo-3-chloropropane	166113	U
120-82-1	1,2,4-Trichlorobenzene	166113	U
87-68-3	Hexachlorobutadiene	332226	U
91-20-3	Naphthalene	332226	U
87-61-6	1,2,3-Trichlorobenzene	166113	U
110-75-8	2-Chloroethyl vinyl ether	332226	U

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
460-00-4	4-Bromofluorobenzene	101
17060-07-0	1,2-Dichloroethane-d4	100
2037-26-5	Toluene-d8	97

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 11:30  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/20/01  
ANALYST: R.R.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

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11401 Moog Drive  
St. Louis, MO 63146  
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## SEMOVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE One

SAMPLE ID: SS-013-11

LAB ID: 9912/6135-010

PARENT ORDER NUMBER: 175236

CAS NUMBER	METHOD DETECTION LIMIT <u>µg/KG</u>	QUANT FACTOR :	RESULTS <u>µg/KG</u> (Dry Weight Basis)
110-86-1	Pyridine	2857.14	U
62-75-9	n-Nitrosodimethylamine	2073.09	U
62-53-3	Aniline	3003.32	U
111-44-4	Bis(2-chloroethyl)ether	1209.30	U
95-57-8	2-Chlorophenol	1475.08	U
108-95-2	Phenol	1116.28	U
541-73-1	1,3-Dichlorobenzene	1541.53	U
106-46-7	1,4-Dichlorobenzene	1488.37	U
95-50-1	1,2-Dichlorobenzene	1408.64	U
100-51-6	Benzyl alcohol	1023.26	U
108-60-1	2,2-oxybis(1-Chloropropane)	1847.18	U
95-48-7	2-Methylphenol	1661.13	3300
67-72-1	Hexachloroethane	1461.79	U
621-64-7	N-Nitrosodi-n-propylamine	1408.64	U
106-44-5	4-Methylphenol	1740.86	U
98-95-3	Nitrobenzene	1116.28	U
78-59-1	Isophorone	1182.72	4100
88-75-5	2-Nitrophenol	1355.48	U
105-67-9	2,4-Dimethylphenol	3401.99	U
111-91-1	Bis(2-chloroethoxy)methane	1102.99	U
120-83-2	2,4-Dichlorophenol	1076.41	U
120-82-1	1,2,4-Trichlorobenzene	1342.19	U
91-20-3	Naphthalene	1302.33	36000
65-85-0	Benzoic acid	2471.76	U
106-47-8	4-Chloroaniline	877.08	1900
87-68-3	Hexachlorobutadiene	1528.24	U
91-57-6	2-Methylnaphthalene	1129.57	76000
59-50-7	4-Chloro-3-methylphenol	1328.90	U
77-47-4	Hexachlorocyclopentadiene	1860.47	U
88-06-2	2,4,6-Trichlorophenol	1993.36	U
95-95-4	2,4,5-Trichlorophenol	3574.75	U
91-58-7	2-Chloronaphthalene	1249.17	U
88-74-4	2-Nitroaniline	943.52	U
208-96-8	Acenaphthylene	810.63	U
131-11-3	Dimethyl phthalate	1129.57	U
606-20-2	2,6-Dinitrotoluene	1289.04	U
83-32-9	Acenaphthene	810.63	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
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(314) 432-0550  
Fax (314) 432-4977

## SEMOVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

### METHOD 8270

PAGE Two

**SAMPLE ID:** SS-013-11

**LAB ID:** 9912/6135-010

**PARENT ORDER NUMBER:** 175236

<u>CAS NUMBER</u>		QUANT. FACTOR :	0.00
		<b>METHOD DETECTION LIMIT</b>	<b>RESULTS</b>
		<u>µg/KG</u>	<u>µg/KG</u>
99-09-2	3-Nitroaniline	1421.93	U
51-28-5	2,4-Dinitrophenol	1289.04	U
132-64-9	Dibenzofuran	1355.48	3100
121-14-2	2,4-Dinitrotoluene	1089.70	U
100-02-7	4-Nitrophenol	2697.67	U
86-73-7	Fluorene	970.10	7900
7005-72-3	4-Chlorophenyl phenyl ether	903.65	U
84-66-2	Diethyl phthalate	1076.41	U
100-01-6	4-Nitroaniline	1116.28	U
534-52-1	4,6-Dinitro-2-methylphenol	2179.40	U
86-30-6	N-Nitrosodiphenylamine	1275.75	U
103-33-3	Azobenzene (1,2-Diphenylhydrazine)	943.52	U
101-55-3	4-Bromophenyl phenyl ether	956.81	U
118-74-1	Hexachlorobenzene	916.94	U
1912-24-9	Atrazine	3986.71	U
87-86-5	Pentachlorophenol	2166.11	U
85-01-8	Phenanthrene	770.76	11000
120-12-7	Anthracene	1009.97	U
86-74-8	Carbazole	1182.72	U
15972-60-8	Alachlor	3986.71	U
84-74-2	Di-n-butyl phthalate	1701.00	U
206-44-0	Fluoranthene	850.50	U
92-87-5	Benzidine	13289.04	U
129-00-0	Pyrene	1036.54	1500
85-68-7	Butyl benzyl phthalate	531.56	U
56-55-3	Benz(a)anthracene	916.94	U
218-01-9	Chrysene	1169.44	U
91-94-1	3,3'-Dichlorobenzidine	1607.97	U
117-81-7	Bis(2-ethylhexyl)phthalate	1701.00	32000
117-84-0	Di-n-octyl phthalate	1009.97	U
205-99-2	Benzo(b)fluoranthene	1887.04	U
207-08-9	Benzo(k)fluoranthene	2152.82	U
50-32-8	Benzo(a)pyrene	863.79	U
193-39-5	Iodo(1,2,3-cd)pyrene	1076.41	U
53-70-3	Dibenz(a,h)anthracene	744.19	U
191-24-2	Benzo(g,h,i)perylene	1129.57	U

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

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## SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN

METHOD 8270

PAGE Three

SAMPLE ID: SS-013-11

LAB ID: 9912/6135-010

PARENT ORDER NUMBER: 175236

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>METHOD DETECTION LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u> (Dry Weight Basis)
-------------------	---	--

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
321-60-8	2-Fluorobiphenyl	94
367-12-4	2-Fluorophenol	70
4165-60-0	Nitrobenzene-d5	97
4165-62-2	Phenol-d5	79
1718-51-0	p-Terphenyl-d14	90
118-79-6	2,4,6-Tribromophenol	65

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/07/01 11:30  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54383  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
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Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-11  
LAB ID: 9912/6135-010  
PARENT ORDER NUMBER: 175236

QUANT FACTOR :	0.00
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## PRACTICAL QUANTITATION

<u>CAS NUMBER</u>		<u>LIMIT</u> <u>µg/KG</u>	<u>RESULTS</u> <u>µg/KG</u> (Dry Weight Basis)
12674-11-2	A-1016	1329	9040
1104-28-2	A-1221	1329	U
11141-16-5	A-1232	1329	U
53469-21-9	A-1242	1329	U
12672-29-6	A-1248	1329	U
11097-69-1	A-1254	1329	U
11096-82-5	A-1260	1329	2760

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	68

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/07/01 11:30  
DATE RECEIVED: 06/07/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369

PROJECT NO: 0105-013

PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

SEMIVOLATILE COMP. BY GC/MS CAPILLARY COLUMN  
METHOD 8270  
PAGE Three

SAMPLE ID: SS-013-01

LAB ID: 9912/6102-001

PARENT ORDER NUMBER: 175069

QUANT FACTOR :	0.00
<u>CAS NUMBER</u>	METHOD DETECTION
	LIMIT <u>µg/KG</u>

(Dry Weight Basis)

## SURROGATE RECOVERY RESULTS

		% RECOVERY
321-60-8	2-Fluorobiphenyl	0
367-12-4	2-Fluorophenol	0
4165-60-0	Nitrobenzene-d5	0
4165-62-2	Phenol-d5	0
1718-51-0	p-Terphenyl-d14	0
118-79-6	2,4,6-Tribromophenol	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT  
AND ABOVE METHOD DETECTION LIMIT

DATE COLLECTED: 06/05/01 14:15  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/15/01  
ANALYST: J.K.

ROY F. WESTON, INC.  
2501 JOLLY ROAD, SUITE 100  
OKEMOS, MI 48864

ATTN: LINDA KOROBKA

INVOICE: 54369  
PROJECT NO: 0105-013  
PO: ---

# ENVIRONMETRICS, INC.

11401 Moog Drive  
St. Louis, MO 63146  
(314) 432-0550  
Fax (314) 432-4977

PCB  
METHOD 8082  
PAGE One

SAMPLE ID: SS-013-01  
LAB ID: 9912/6102-001  
PARENT ORDER NUMBER: 175069

QUANT FACTOR : 0.00

<u>CAS NUMBER</u>	<u>PRACTICAL QUANTITATION</u>		<u>RESULTS</u> <u>ug/KG</u>
	<u>LIMIT</u> <u>ug/KG</u>		
12674-11-2	A-1016	4236	U
1104-28-2	A-1221	4236	U
11141-16-5	A-1232	4236	U
53469-21-9	A-1242	4236	U
12672-29-6	A-1248	4236	U
11097-69-1	A-1254	4236	U
11096-82-5	A-1260	4236	5300

## SURROGATE RECOVERY RESULTS

		<u>% RECOVERY</u>
2051-24-3	Decachlorobiphenyl (DCB)	0
877-09-8	2,4,5,6-Tetrachloro-meta-xylene (TCMX)	0

U = UNDETECTED

B = PRESENT IN BLANK

J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED: 06/05/01 14:15  
DATE RECEIVED: 06/06/01  
DATE ANALYZED: 06/25/01  
ANALYST: J.K.